MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

Tischler Und Sohn (USA) Ltd.
Six Suburban Avenue
Stamford, Ct. 06901

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER -Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Tischler series Outswing Wood Doors-L.M. Impact

APPROVAL DOCUMENT: Drawing No.**1616 REV B**, titled "Out-Swing Impact Wood Panel Doors", sheets 1 through 17 of 17, dated 10/08/08 and last revised on FEB 20, 2014, prepared by W.W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren Schaefer, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large Missile Impact Resistant

Limitations:

1. MDF material: Medite Exterior MDF panel EN 622 Type MDF-H2
2. See sheets 8 thru 10 for reinforcements, see panel glazing options on sheet 11.
3. Lower design pressure shall control when doors mulled w/ Tishler's transom (under separate approval) see sheet 6.
4. CMU to conform to ASTM-C 90 and min 2000 psi net compressive masonry strength.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, Kall/Eifel, Germany and series and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises & renews NOA # 11-1101.15 and** consists of this page 1 and evidence pages E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**

MIAMI-DADE COUNTY APPROVED

4/9/14

NOA No. 14-0303.08
Expiration Date: May 27, 2019
Approval Date: May 01, 2014

Tischler Und Sohn (USA) Ltd.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's parts drawings and sections (submitted under **11-1101.12 / #09-0212.04**)
2. Drawing No.**1616 REV B**, titled "Out-Swing Impact Wood Panel Doors", sheets 1 through 17 of 17, dated 10/08/08 and last revised on FEB 20, 2014, prepared by W.W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren Schaefer, P.E.

(Note: The revision consist of updating angle clip masonry screws)

B. TESTS (submitted under **11-1101.15/ #09-0212.07**)

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94
   4) Large Missile Impact Test per FBC, TAS 201-94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
   6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

Along with installation diagram of Single & Double Outswing /Inswing, Tilt/Turn Mahogany Wood French doors w/wo Sidelite & Transom, w/ MDF & wood Veneered Panels and different shapes top, prepared by Architectural Testing, Test Report(s) No. **ATI 77326.01-109-18**, dated 02/03/09 and **ATI 77327.01-109-18**, dated 02/202/09, both signed and sealed by Michael D. Stremmel, P.E.

2. Additional test report: ATI 77324.01-109.18 (specimen A3-1 & A3-7) issued by Architectural Testing per TAS 201, 202 and 203-94.

C. CALCULATIONS

1. Anchor calculations and structural analysis complying w/ FBC 2014 dated 02/20/2014, prepared by W.W. Schaefer Engineering & Consulting, P.A., signed & sealed by Warren Schaefer, P.E.

D. QUALITY ASSURANCE

1. Miami Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. Test report No. ATI-86006.01-106-18 (Rev 2) dated 12/12/08 and ATI-86006.02-106-18 02/05/09 for " Durability of Wood-Based Composite Lumber and panels" per ASTM ASTM D-1761 and ASTM D-4761, issued by Architectural Testing Lab (submitted under **11-1101.15 / #09-0212.07).**

F. STATEMENTS

1. Statement letters of conformance to FBC **5th** Edition (2014), dated MAR 27, 2014 and e-mail dated APR 17, 2014, prepared by W. W. Schafer Engineering & Consulting, P. A., signed and sealed by Warren W. Schafer, P.E.
2. Statement letters of conformance to FBC 2010, dated OCT 28, 2011 and "No financial interest dated OCT 24, 2011, prepared by W. W. Schafer Engineering & Consulting, P. A., signed and sealed by Warren W. Schafer, P.E. (submitted under **#11-1101.15**)
3. E-mail statement dated 03/31/09, issued by Michael D. Stremmel, P.E. of Architectural testing in reference to low sill, water infiltration test (submitted under **11-1101.15/ #09-0212.07**)

G. OTHER

1. This NOA **revises & renews NOA # 11-1101.15,** expiring 05/27/14.
2. Test proposal # **07-3533** dated Oct 22, 2007, approved by BCCO.
3. Distribution agreement between Tishler Und Sohn (USA) and Tishler/Cornelius Korn GmbH, Germany, signed by Tim Carpenter & Wilhem Korn, respectively.
4. Tishler's current Fixed Casement windows NOA(s) w/ Drawing references No. **1514** or **1533.**

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 14-0303.08
Expiration Date: May 27, 2019
Approval Date: May 01, 2014

GENERAL NOTES:

1. THESE DOOR SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S).
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCALS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT DOORS.
5. THESE DOOR SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE DOORS.
7. ALL ANCHORS SECURING DOOR FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF Kd = 0.85 MAY BE APPLIED PER THE ASCE 7 STANDARD.
9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR Cd = 1.6 WAS USED FOR WOOD SCREW ANALYSIS ONLY.
10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.
11. All WOOD MEMBERS OF DOORS THAT MAY POSSIBLY COME INTO CONTACT WITH MASONRY OR CONCRETE SUBSTRATES, ARE SUBJECT TO MOISTURE &/OR ARE SUBJECT TO THE OUTSIDE ENVIRONMENT SHALL BE OF AN APPROVED DURABLE SPECIES OR BE TREATED IN AN APPROVED METHOD WITH AN APPROVED PRESERVATIVE PER FBC SECTION 2326.

FRAME ANCHOR REQUIREMENTS TABLE

OPENING TYPE (SUBSTRATE)	FRAME/SILL/CLIP/BRACKET TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
FRAME/SILL SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 14 SMS/WOOD SCREW OR 1/4" BTI SCREW	1 1/4"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	(2)1/4-14 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	(2)1/4-14 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	(2)1/4-14 SELF TAP/DRILLING SCREW	FULL	1/2"
C-90 CMU/2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
INSTALLATION CLIP SCREWS			
MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 12 X 1 1/2" SMS	1 3/8"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	(2)12-14 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	(2)12-14 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	(2)12-14 SELF TAP/DRILLING SCREW	FULL	1/2"
C-90 CMU/2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
BTI BRACKET SCREWS			
MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 X 1 1/2" SMS	1 3/8"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	(2) 8-18 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	(2) 8-18 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	(2) 8-18 SELF TAP/DRILLING SCREW	FULL	1/2"
ANGLE CLIP SCREWS			
MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 X 1 1/2" SMS	1 3/8"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	(2) 8-18 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	(2) 8-18 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	(2) 8-18 SELF TAP/DRILLING SCREW	FULL	1/2"
C-90 CMU/2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2"

(1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS, ELCO CRETE-FLEX OR HILTI KWIK-CON II (HARDENED STEEL OR S.S.).
(2) ALL SELF TAP/DRILLING SCREWS SHALL BE MIN. GR. 5

LOCK STRIKE REQUIREMENTS (TOP OF PANEL)

PANEL WIDTH	QUANTITY PER PANEL
RECTANGULAR PANEL	
ALL WIDTHS	2
ARCH & ROUND TOP PANEL	
OVER 32"	3
28" TO 32"	2

(1) LOCK STRIKE REQUIREMENTS (BOTTOM OF PANEL)

PANEL WIDTH	QUANTITY PER PANEL
ALL PANEL SHAPES	
ALL WIDTHS	2

(1) WHEN ADA SILL IS USED WITH DOUBLE DOORS, ONLY THE KFV LOCK SYSTEM MAY BE USED. WHEN ADA SILL IS USED WITH A SINGLE DOOR, BOTH THE KFV & SIEGENIA LOCK SYSTEMS APPLY BUT DO NOT REQUIRE SILL STRIKES.

LOCK STRIKE REQUIREMENTS (LOCK SIDE OF PANEL)

(1) PANEL HEIGHT	QUANTITY PER PANEL
ALL PANEL SHAPES	
OVER 96"	4
76" TO 96"	3

(1) THE "PANEL HEIGHT" IS CONSIDERED TO BE FULL PANEL HEIGHT FOR RECTANGULAR UNITS OR DISTANCE FROM THE BASE OF PANEL TO PANEL SRINGLINE FOR SHAPED UNITS

PANEL WIDTH DIMENSIONS ARE APPROXIMATELY 3" LESS THAN THE FRAME WIDTH &. PANEL HEIGHT WIDTH DIMENSIONS ARE APPROXIMATELY 1 3/4 LESS THAN THE FRAME HEIGHT

ALLOWABLE DESIGN PRESSURE
(SINGLE & DOUBLE OPERABLE DOORS)

MAX. FRAME WIDTH (IN.)	MAX. FRAME HEIGHT (IN.)	ALLOWABLE PRESSURE	
		POSITIVE (PSF)	NEGATIVE (PSF)
SINGLE DOOR			
51 11/16	120	70	70
41 1/2	99	70	(1) 85
DOUBLE DOOR			
80 1/16	120	70	70
80 1/16	99	70	(1) (2) 85

(1) HIGHER PRESSURE OF -85 PSF IS ONLY APPLICABLE WITH STANDARD OR OPTIONAL SILL (USE OF ADA SILL IS NOT APPLICABLE TO UNITS WITH PRESSURE EXCEEDING +/-70 PSF).

(2) HIGHER PRESSURE OF -85 PSF IS ONLY APPLICABLE WITH DOUBLE DOORS WHEN THE DOUBLE DOOR MEETING STILES ARE BAR REINFORCED (REF. SECTIONS).

CORNER CONSTRUCTION:

RECTANGULAR FRAME CORNERS: MORTISE & TENON CONSTRUCTION JOINED & GLUED WITH PONAL SUPER 3 WOOD GLUE OR EQUIVALENT.
ARCHED FRAME CORNERS: ARCHED FRAME BUTTED TO STRAIGHT FRAME, JOINED WITH ONE(1) NO.14 X 3" WOOD SCREW, & GLUED WITH PONAL SUPER 3 WOOD GLUE OR EQUIVALENT.
HALF ROUND FRAME CORNERS: FINGER JOINT CONSTRUCTION JOINED & GLUED WITH PONAL SUPER 3 WOOD GLUE OR EQUIVALENT.
RECTANGULAR PANEL CORNERS:
OPTION 1 (USED WITH STILE & RAIL CONDITIONS WHERE MEMBERS ARE 4.250" OR LESS IN OVERALL HEIGHT): MORTISE & TENON CONSTRUCTION JOINED & GLUED WITH PONAL SUPER 3 WOOD GLUE OR EQUIVALENT.
OPTION 2 (USED WITH STILE & RAIL CONDITIONS WHERE MEMBERS ARE GREATER THAN 4.250" IN OVERALL HEIGHT): MEMBERS ARE SQUARE CUT, BUTTED, JOINED WITH FIVE(5) ø5/16 X 2" WOOD DOWELS, & GLUED WITH PONAL SUPER 3 WOOD GLUE OR EQUIVALENT.
ARCHED PANEL CORNERS: ARCHED RAIL BUTTED TO STRAIGHT STILE, JOINED WITH ONE(1) NO.14 X 3" WOOD SCREW, & GLUED WITH PONAL SUPER 3 WOOD GLUE OR EQUIVALENT.
HALF ROUND PANEL CORNERS: FINGER JOINT CONSTRUCTION JOINED & GLUED WITH PONAL SUPER 3 WOOD GLUE OR EQUIVALENT.
SILL CORNERS:
ALL SILL CONDITIONS: SILL IS BUTTED TO THE JAMBS & JOINED WITH THREE(3) NO.6 X 2" WOOD SCREWS & SEALED WITH SEALANT.

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 14-0303.08
Expiration Date MAY 27, 2019
By Isaac I. Chang
Miami-Dade Product Control

THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

HINGE REQUIREMENTS

(1) PANEL HEIGHT	QUANTITY PER PANEL
OVER 99"	5
76" TO 99"	4

(1) THE "PANEL HEIGHT" IS CONSIDERED TO BE FULL PANEL HEIGHT FOR RECTANGULAR UNITS OR DISTANCE FROM THE BASE OF PANEL TO PANEL SRINGLINE FOR SHAPED UNITS

NO.	REVISION DESCRIPTION	BY	DATE
A1	UPDATE TO CURRENT STANDARDS	W.R.M.	10/25/11
B1	UPDATE TO CURRENT STANDARDS	W.W.S.	02/20/14

DRAWN BY: W.R.M. | CHECKED BY: W.W.S.
PLOT: 1=24 | DATE: 10/03/08

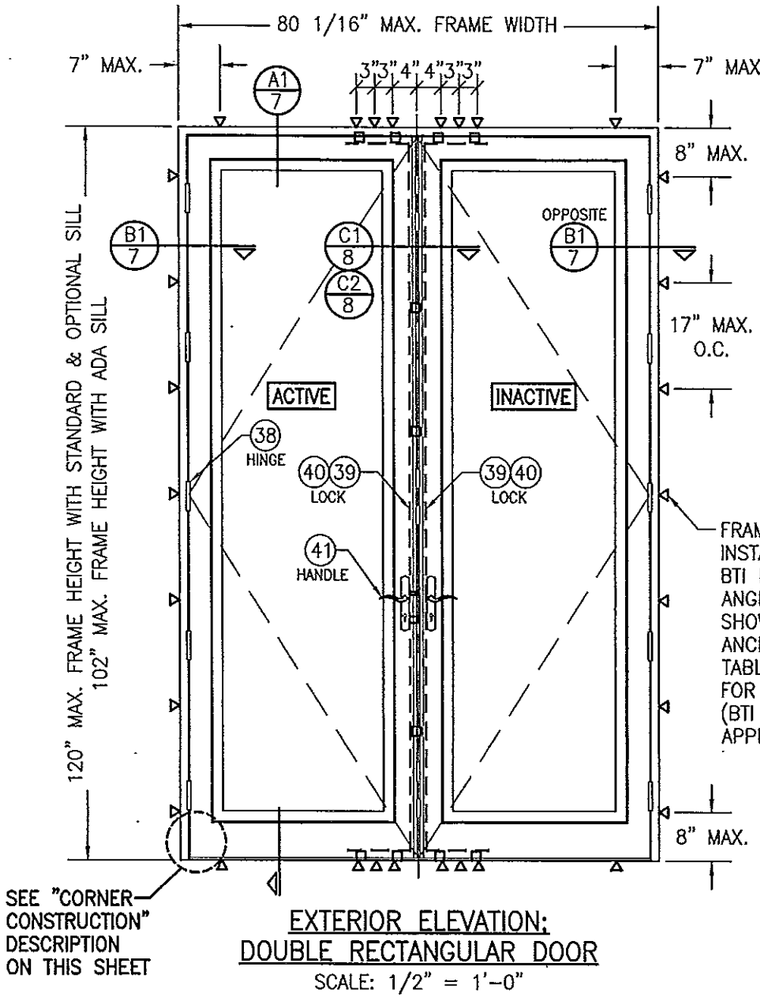
DRAWING TITLE: OUT-SWING IMPACT WOOD PANEL DOORS

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

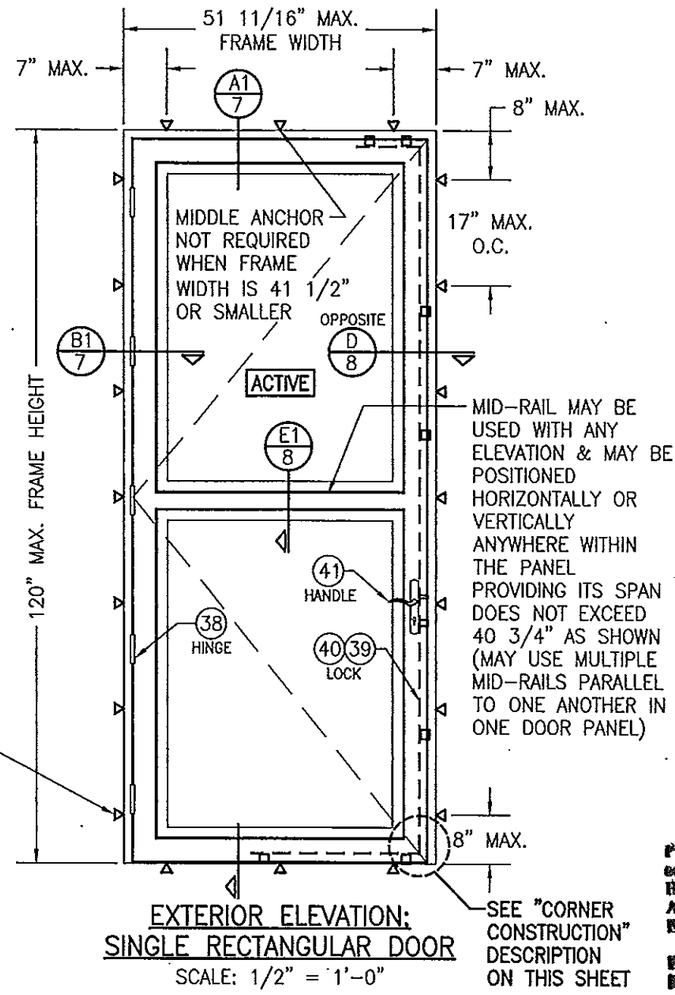
MANUFACTURER
TSCHLER UND SOHN (USA) LTD.
SIX SUBURBAN AVENUE
STAMFORD, CONNECTICUT 06901
203-674-0600

CERTIFICATION
FEB 20 2014
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO. 1616 | REV. B
SHEET NO. 1 OF 17



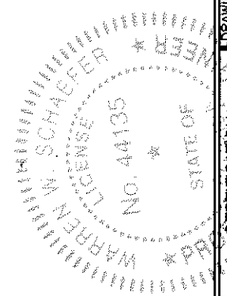
EXTERIOR ELEVATION:
DOUBLE RECTANGULAR DOOR
SCALE: 1/2" = 1'-0"



EXTERIOR ELEVATION:
SINGLE RECTANGULAR DOOR
SCALE: 1/2" = 1'-0"

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 14-0303.08
Expiration Date 5/27/19
By Richard Duda Product Control

ALLOWABLE DESIGN PRESSURE
SEE PRESSURE TABLE ON SHEET 1



DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=24	DATE: 10/08/08

NO.	REVISION DESCRIPTION	BY	DATE

DRAWING TITLE
OUT-SWING IMPACT WOOD PANEL DOORS

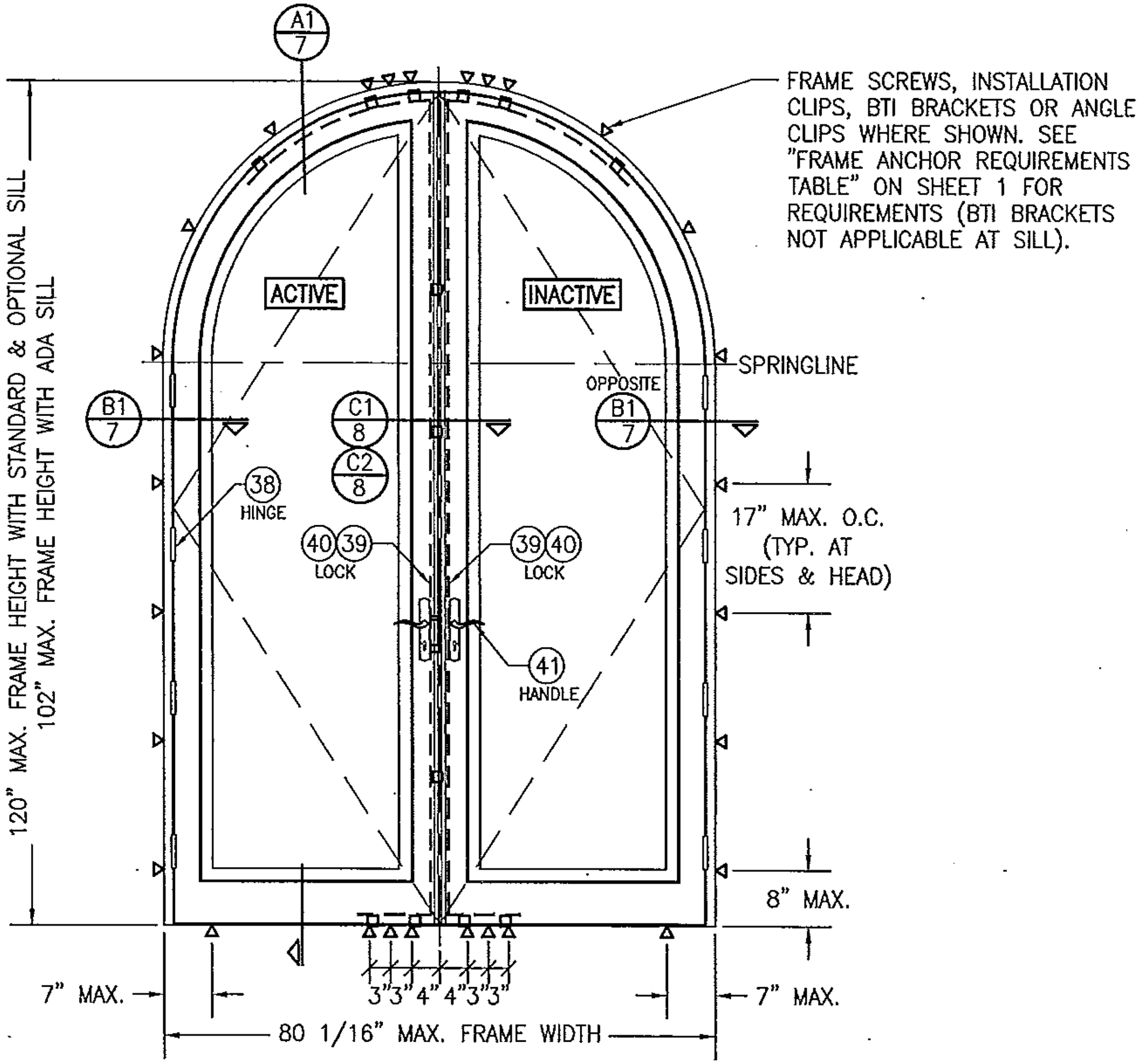
MANUFACTURER
TISCHLER UND SOHN (USA) LTD.
SIX SUBURBAN AVENUE
STAMFORD, CONNECTICUT 06901
203-674-0600

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

CERTIFICATION
FEB 20 2014
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

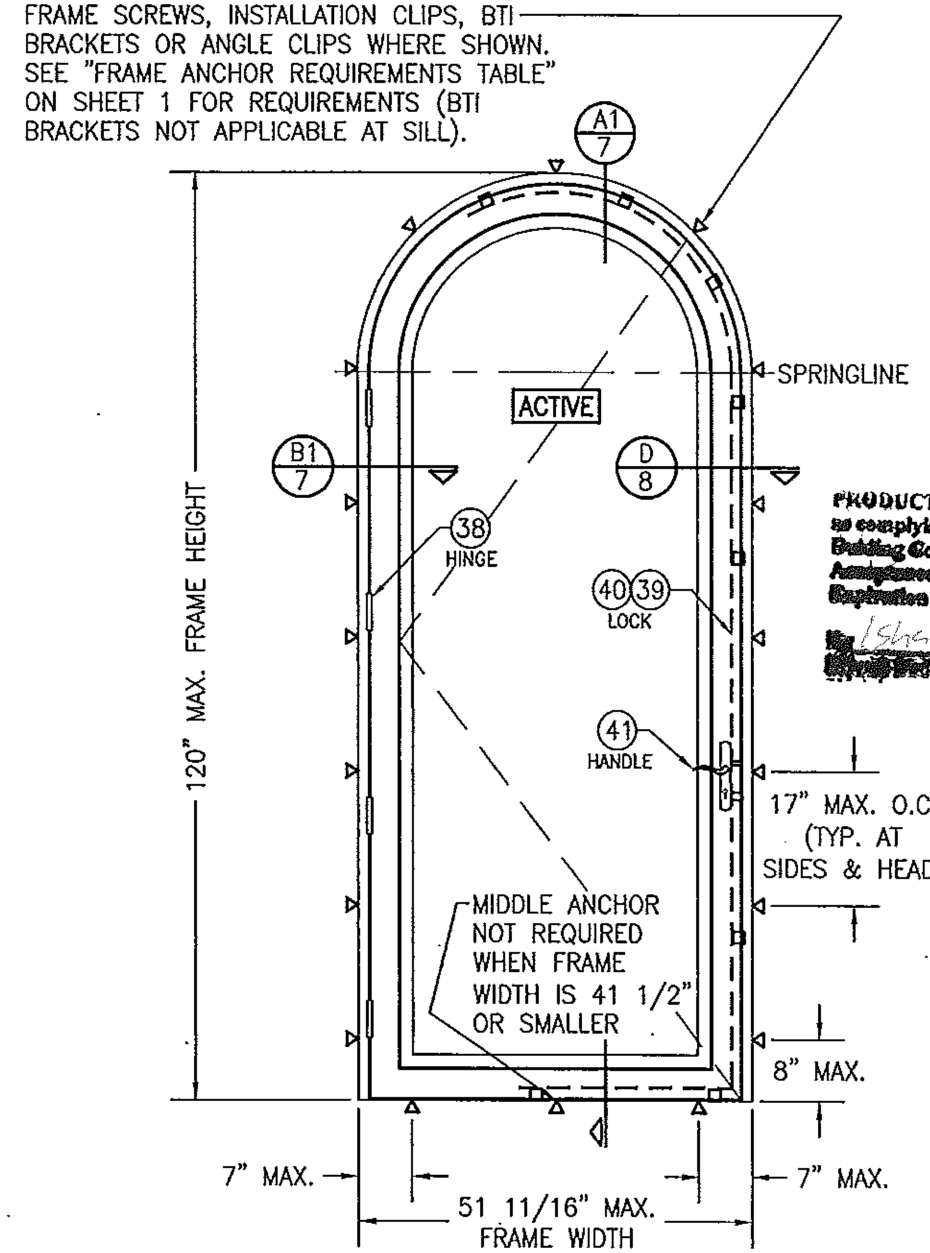
DRAWING NO. 1616 | REV. B

SHEET NO. 2 OF 17



EXTERIOR ELEVATION; DOUBLE HALF ROUND DOOR

SCALE: 1/2" = 1'-0"

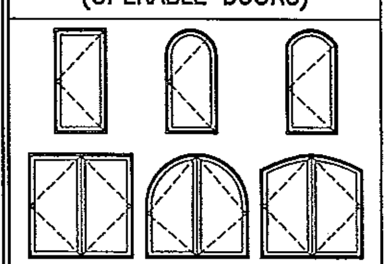


EXTERIOR ELEVATION; SINGLE HALF ROUND DOOR

SCALE: 1/2" = 1'-0"

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No 14-0303.05
Expiration Date 5/27/19
By [signature]
Miami-Dade Product Control

APPROVED SHAPES
(OPERABLE DOORS)



NOTES:

1. OTHER SHAPES MAY APPLY PROVIDING THEY ARE SIMILAR TO THOSE SHOWN & HAVE CORNER CONSTRUCTION AS DESCRIBED IN THIS DRAWING.
2. ALL SHAPED UNITS MUST FIT INSCRIBED INTO THE ALLOWABLE RECTANGULAR UNITS & BE GOVERNED BY THE ALLOWABLE PRESSURE OF THE RESPECTIVE RECTANGULAR UNIT.

ALLOWABLE DESIGN PRESSURE
SEE PRESSURE TABLE ON SHEET 1

ANCHOR NOTE: ANCHOR SPACING AT THE HEAD OF ALL TYPES OF SHAPED DOORS MUST EQUAL THAT SPECIFIED AT THE SIDES (17" MAX. O.C.)

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=24	DATE: 10/08/08

NO.	REVISION DESCRIPTION	BY	DATE

DRAWING TITLE
OUT-SWING IMPACT WOOD PANEL DOORS

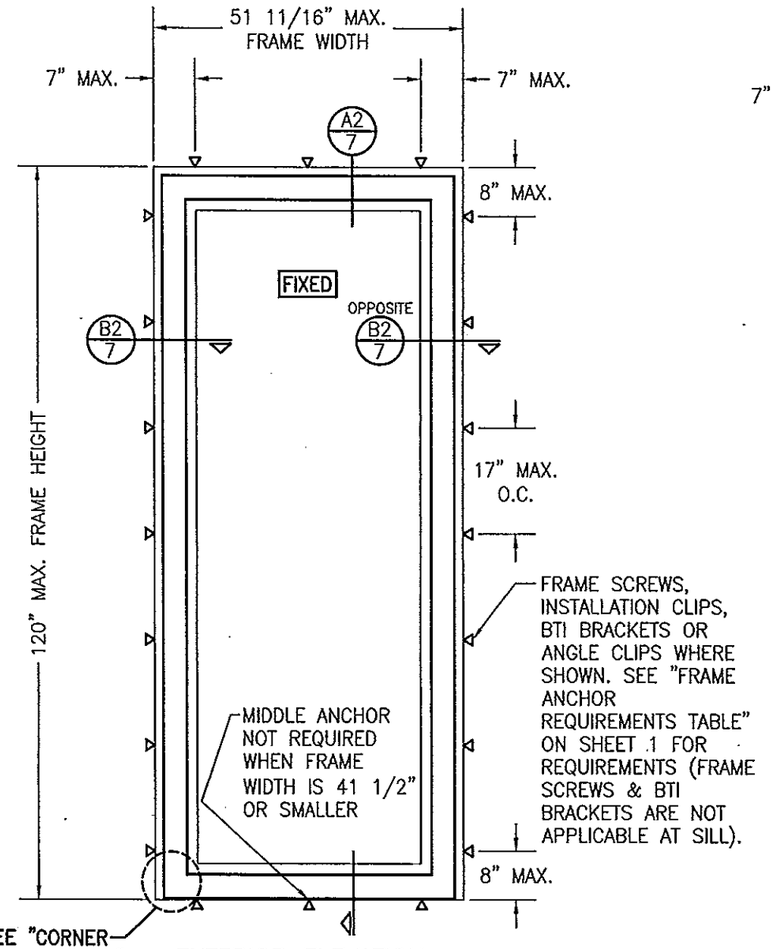
MANUFACTURER
TISCHLER UND SOHN (USA) LTD.
SIX SUBURBAN AVENUE
STAMFORD, CONNECTICUT 06901
203-674-0600

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

CERTIFICATION
FEB 20 2014
WARREN W. SCHAEFER LICENSE NO. 44135 PROFESSIONAL
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO.	REV.
1616	B

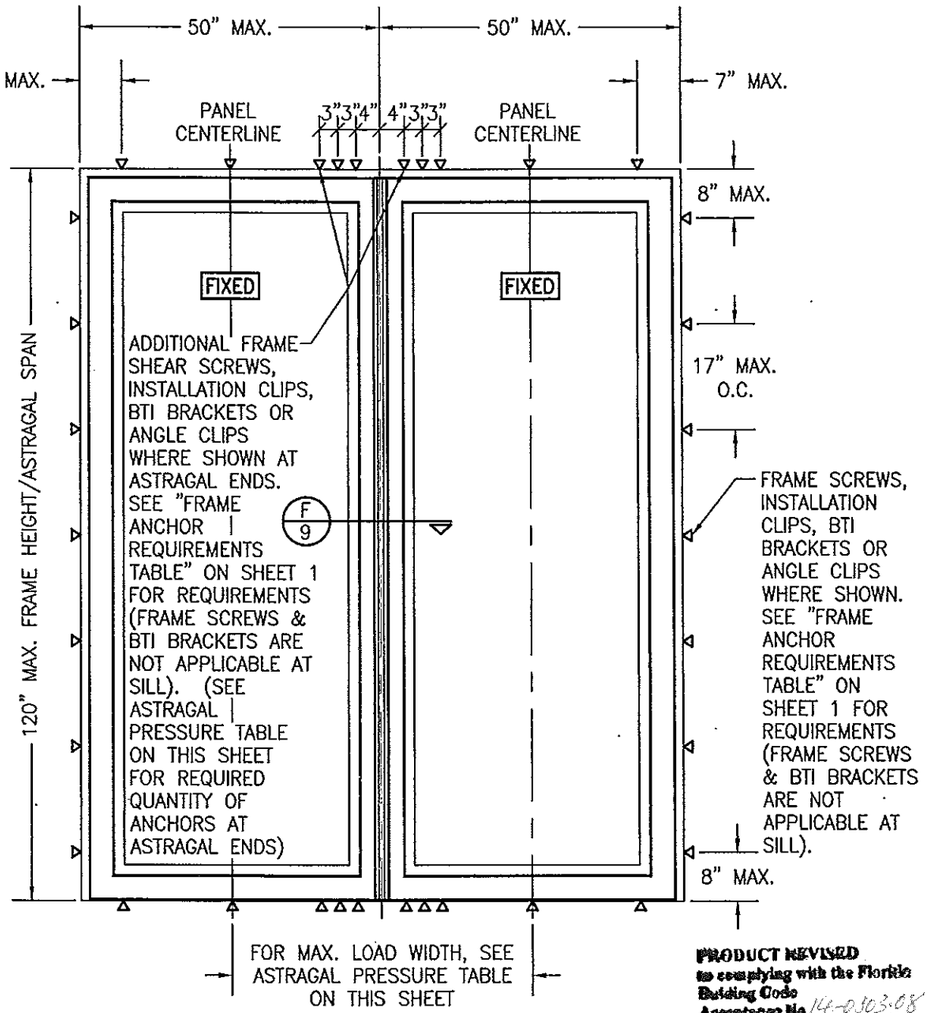
SHEET NO.
3 OF 17



EXTERIOR ELEVATION: SINGLE FIXED PANEL

SCALE: 1/2" = 1'-0"

(RECTANGULAR FIXED DOOR SHOWN, SHAPED DOORS ALSO APPLY. SEE "APPROVED SHAPES" TABLE ON THIS SHEET)



EXTERIOR ELEVATION: DOUBLE FIXED PANEL WITH FIXED ASTRAGAL

SCALE: 1/2" = 1'-0"

SEE SINGLE FIXED PANEL ELEVATION FOR DETAIL NOT SHOWN

PRODUCT REVISED
to complying with the Florida Building Code
Acceptance No. 14-0303.08
Expiration Date 5/23/14
By [signature]
Miami Dade Product Control

FIXED ASTRAGAL ALLOWABLE DESIGN PRESSURE

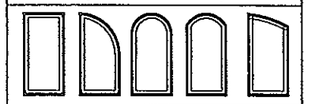
MAXIMUM ASTRAGAL SPAN (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (PSF)			
		4 END ANCHORS		6 END ANCHORS	
		POS.	NEG.	POS.	NEG.
120	50	51.4	51.4	70.0	70.0
	48	53.5	53.5	70.0	70.0
	44	58.4	58.4	70.0	70.0
	40	64.2	64.2	70.0	70.0
	36	70.0	70.0	70.0	70.0
	32	70.0	70.0	70.0	70.0
	28	70.0	70.0	70.0	70.0
108	50	57.1	57.1	70.0	70.0
	48	59.5	59.5	70.0	70.0
	44	64.9	64.9	70.0	70.0
	40	70.0	70.0	70.0	70.0
	36	70.0	70.0	70.0	70.0
	32	70.0	70.0	70.0	70.0
99	50	62.3	62.3	70.0	85.0
	48	64.9	64.9	70.0	85.0
	44	70.0	70.8	70.0	85.0
	40	70.0	77.9	70.0	85.0
	36	70.0	85.0	70.0	85.0
96	50	64.2	64.2	70.0	85.0
	48	66.9	66.9	70.0	85.0
	44	70.0	73.0	70.0	85.0
	40	70.0	80.3	70.0	85.0
	37	70.0	85.0	70.0	85.0
84	50	70.0	73.4	70.0	85.0
	48	70.0	76.5	70.0	85.0
	44	70.0	83.4	70.0	85.0
	43	70.0	85.0	70.0	85.0
80	50	70.0	77.1	70.0	85.0
	48	70.0	80.3	70.0	85.0
	45	70.0	85.0	70.0	85.0

NOTES:
1. LOAD WIDTH IS THE DISTANCE BETWEEN PANEL CENTERLINES.
2. ALLOWABLE UNIT PRESSURE SHALL BE THE LESSER OF THE PRESSURES SHOWN IN THIS TABLE & THOSE SPECIFIED FOR THE INDIVIDUAL FIXED PANEL.
3. SIZE VALUES IN TABLE ARE +/-1/4"

ALLOWABLE DESIGN PRESSURE (SINGLE FIXED PANELS)

MAX. FRAME WIDTH (IN.)	MAX. FRAME HEIGHT (IN.)	ALLOWABLE PRESSURE	
		POSITIVE (PSF)	NEGATIVE (PSF)
51 11/16	120	70	70
51 11/16	99	70	85

APPROVED SHAPES (FIXED PANELS)



NOTES:
1. OTHER SHAPES MAY APPLY PROVIDING THEY ARE SIMILAR TO THOSE SHOWN & HAVE CORNER CONSTRUCTION AS DESCRIBED IN THIS DRAWING.
2. ALL SHAPED UNITS MUST FIT INSCRIBED INTO THE ALLOWABLE RECTANGULAR UNITS & BE GOVERNED BY THE ALLOWABLE PRESSURE OF THE RESPECTIVE RECTANGULAR UNIT.
3. THE SHAPES SHOWN APPLY TO SINGLE FIXED PANELS AND THE PANELS ON EITHER SIDE OF A FIXED ASTRAGAL.

ANCHOR NOTE: ANCHOR SPACING AT THE HEAD OF ALL TYPES OF SHAPED PANEL DOORS MUST EQUAL THAT SPECIFIED AT THE SIDES (17" MAX. O.C.)

DRAWN BY: W.R.M. | CHECKED BY: W.W.S.
PLOT: 1=24 | DATE: 10/08/08

NO.	REVISION DESCRIPTION	BY	DATE

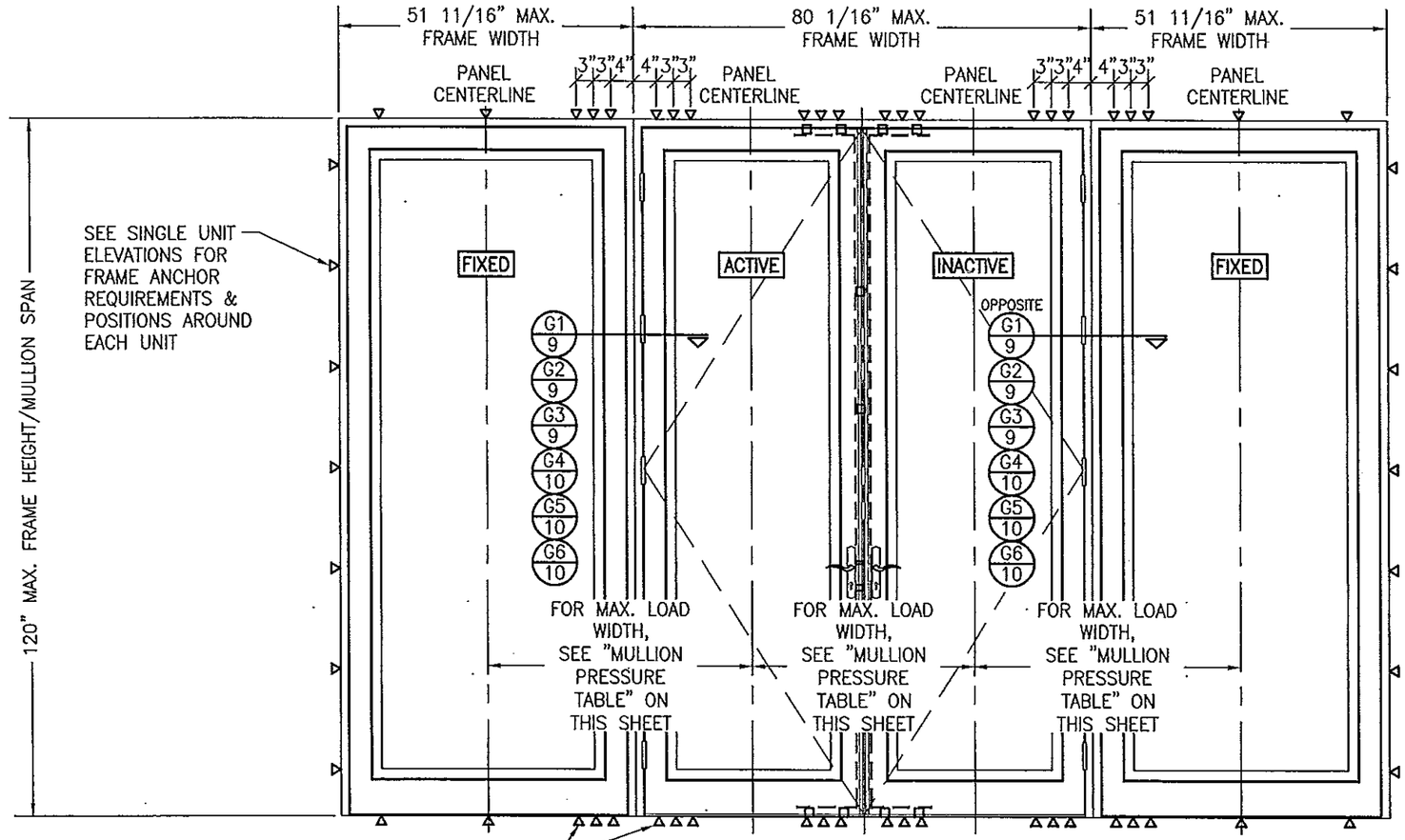
DRAWING TITLE: OUT-SWING IMPACT WOOD PANEL DOORS

MANUFACTURER: TISCHLER UND SOHN (USA) LTD.
SIX SUBURBAN AVENUE
STAMFORD, CONNECTICUT 06901
203-674-0600

CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

CERTIFICATION: FEB 20 2014
WARREN W. SCHAEFER P.E. NO. 44135

DRAWING NO. 1616 | REV. B
SHEET NO. 4 OF 17



EXTERIOR ELEVATION: DOUBLE DOORS WITH FIXED PANELS

SCALE: 1/2" = 1'-0"

(RECTANGULAR DOORS SHOWN, SHAPED DOORS ALSO APPLY. SEE "APPROVED SHAPED" TABLE ON SHEETS 3 & 4)

MULTIPLE UNIT NOTES:

1. FOR ALL DETAIL NOT SHOWN, SEE INDIVIDUAL UNIT ELEVATIONS.
2. THERE IS NO LIMIT ON THE NUMBER OF DOORS THAT MAY BE COMBINED IN ONE DIRECTION INTO ONE OPENING PROVIDING THE OPENING IS DESIGNED TO SUPPORT ALL LOADS TRANSFERED FROM THE DOORS & THEIR MULLIONS.
3. OXXO UNIT IS SHOWN. ALL OTHER FIXED/OPERABLE COMBINATIONS ALSO APPLY WITH THE MULLION CONDITIONS SHOWN.
4. INDIVIDUAL DOOR/FIXED PANEL SIZES SHALL BE RESTRICTED AS SPECIFIED IN THE SINGLE UNIT ELEVATIONS.

MULLION ALLOWABLE DESIGN PRESSURE

MAXIMUM MULLION SPAN (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (PSF) POS.	NEG.
120	52	53.8	53.8
	48	58.3	58.3
	44	63.6	63.6
	40	70.0	70.0
	36	70.0	70.0
	32	70.0	70.0
108	52	59.8	59.8
	48	64.8	64.8
	44	70.0	70.0
	40	70.0	70.0
	36	70.0	70.0
99	52	70.0	75.2
	48	70.0	81.5
	46	70.0	85.0
96	52	70.0	77.5
	48	70.0	84.0
	44	70.0	85.0
84	52	70.0	85.0

NOTES:
1. LOAD WIDTH IS THE DISTANCE BETWEEN PANEL CENTERLINES.
2. ALLOWABLE UNIT PRESSURE SHALL BE THE LESSER OF THE PRESSURES SHOWN IN THIS TABLE & THOSE SPECIFIED FOR THE INDIVIDUAL DOOR/FIXED PANEL.
3. SIZE VALUES IN TABLE ARE +/-1/4"

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 14-0303.08
Expiration Date 5-27-19
By [signature]
Miami Dade Product Control

DRAWN BY: W.R.M. | CHECKED BY: W.W.S.
PLOT: 1=24 | DATE: 10/08/08

NO.	REVISION DESCRIPTION	BY	DATE

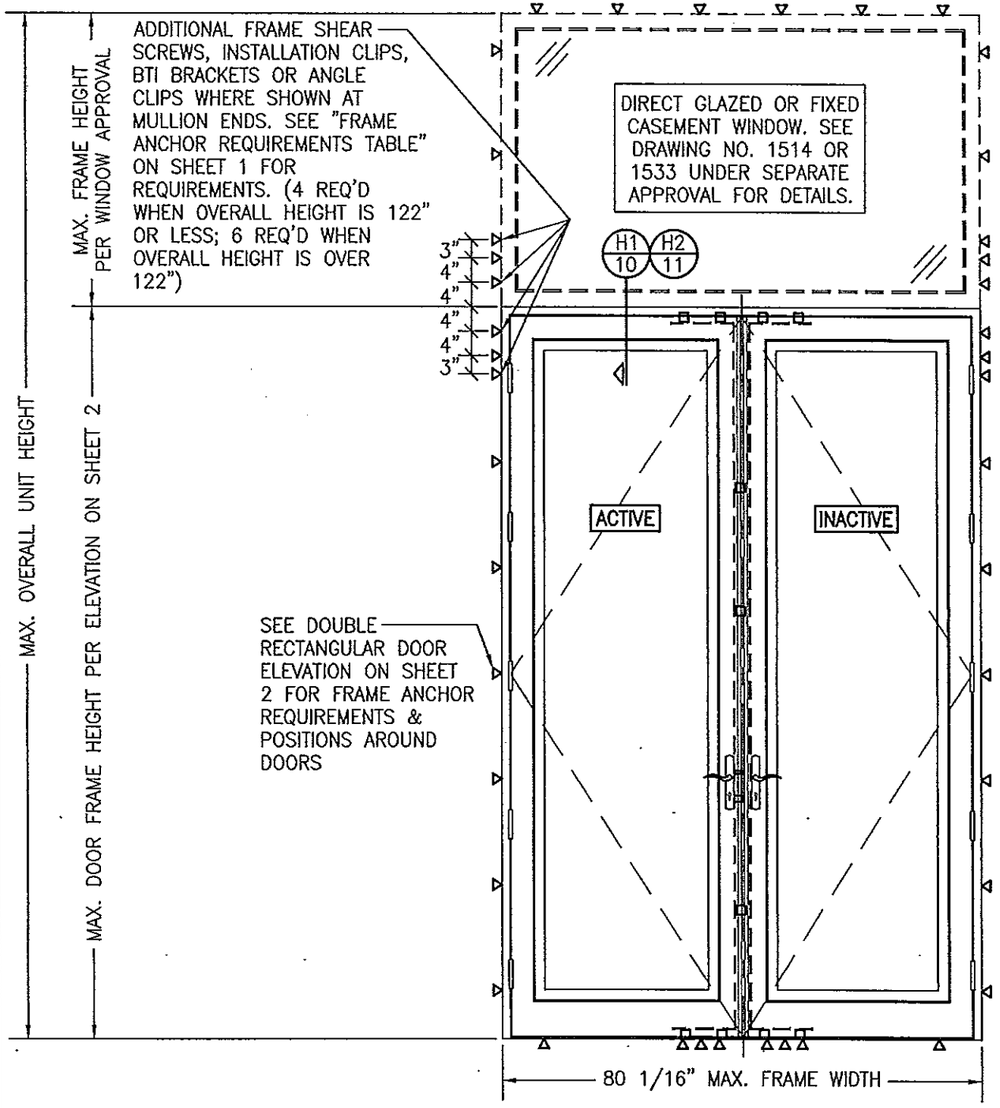
MANUFACTURER
TISCHLER UND SOHN (USA) LTD.
SIX SUBURBAN AVENUE
STAMFORD, CONNECTICUT 06901
203-674-0600

DRAWING TITLE
OUT-SWING IMPACT WOOD PANEL DOORS

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

CERTIFICATION
FEB 20 2014
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO. 1616 | REV. B
SHEET NO. 5 OF 17

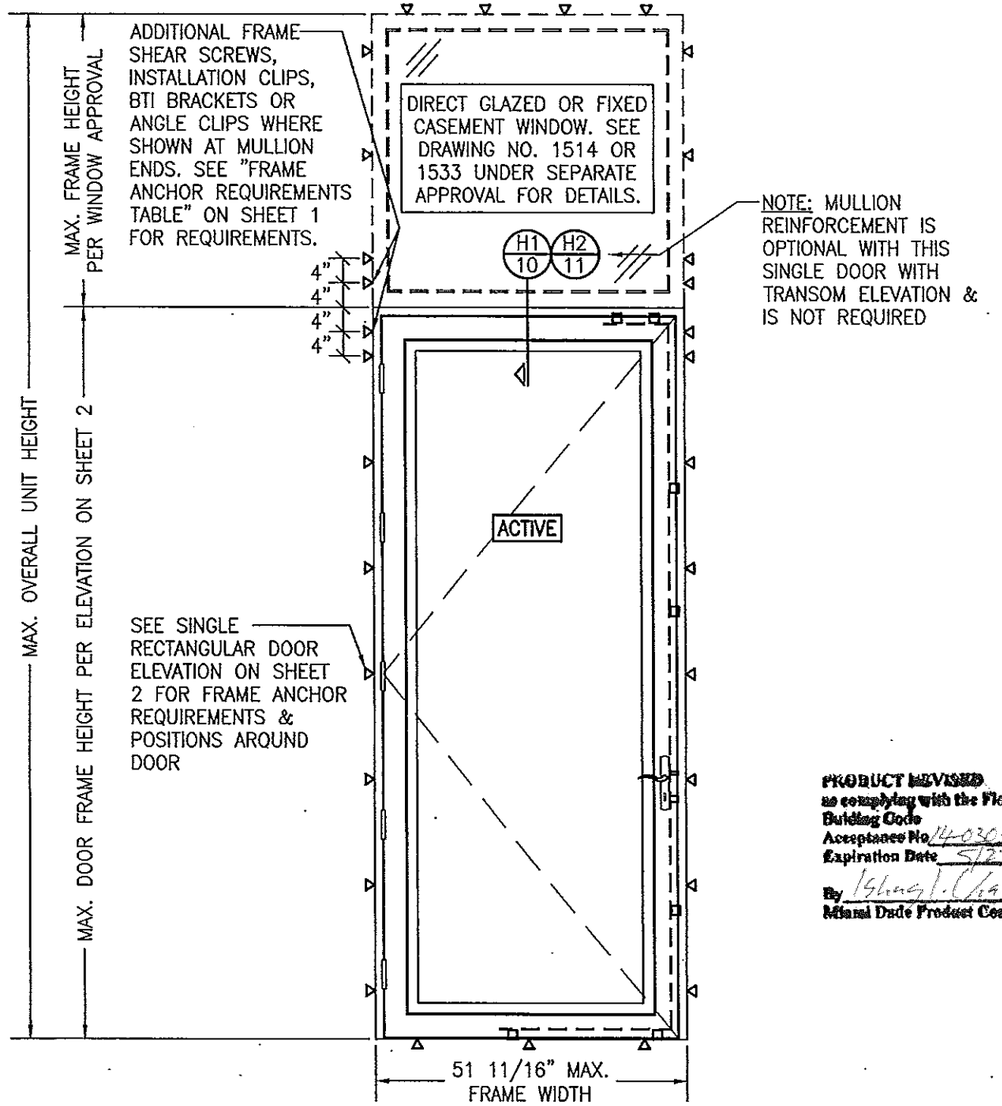


EXTERIOR ELEVATION; DOUBLE DOORS WITH TRANSOM

SCALE: 1/2" = 1'-0"

(SEE DOUBLE RECTANGULAR DOOR ELEVATION ON SHEET 2 FOR DOOR DETAIL NOT SHOWN)

ALLOWABLE DESIGN PRESSURE (DOUBLE DOOR TRANSOM UNIT)			
MAX. FRAME WIDTH (IN.)	MAX. OVERALL UNIT HEIGHT (IN.)	(1) ALLOWABLE PRESSURE	
		POSITIVE (PSF)	NEGATIVE (PSF)
80 1/16	168	70	70
80 1/16	138	70	(1) 85
(1) LESSER OF THE PRESSURES IN THIS TABLE & THOSE FOR THE INDIVIDUAL DOORS SHALL CONTROL.			



NOTE: MULLION REINFORCEMENT IS OPTIONAL WITH THIS SINGLE DOOR WITH TRANSOM ELEVATION & IS NOT REQUIRED

EXTERIOR ELEVATION; SINGLE DOOR WITH TRANSOM

SCALE: 1/2" = 1'-0"

(SEE SINGLE RECTANGULAR DOOR ELEVATION ON SHEET 2 FOR DOOR DETAIL NOT SHOWN)

ALLOWABLE DESIGN PRESSURE (SINGLE DOOR TRANSOM UNIT)			
MAX. FRAME WIDTH (IN.)	MAX. OVERALL UNIT HEIGHT (IN.)	(1) ALLOWABLE PRESSURE	
		POSITIVE (PSF)	NEGATIVE (PSF)
51 11/16	168	70	70
41 1/2	168	70	(1) 85
(1) LESSER OF THE PRESSURES IN THIS TABLE & THOSE FOR THE INDIVIDUAL DOORS SHALL CONTROL.			

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No. 14030.08
Expiration Date 5/27/14
By Ishaq I. Chanda
Miami Dade Product Control

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=24	DATE: 10/08/08

NO.	REVISION DESCRIPTION	BY	DATE

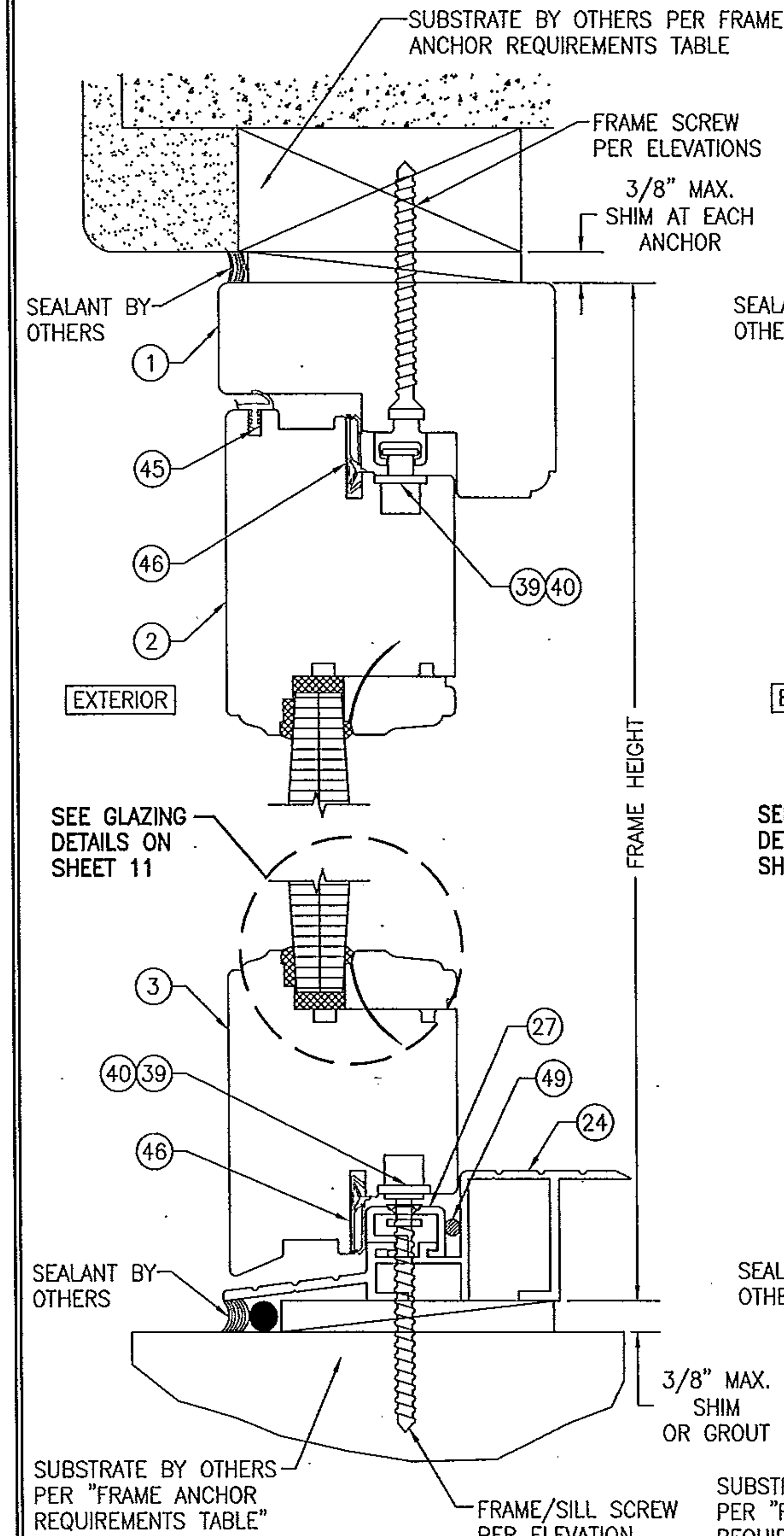
DRAWING TITLE: OUT-SWING IMPACT WOOD PANEL DOORS

MANUFACTURER: TISCHLER UND SOHN (USA) LTD.
SIX SUBURBAN AVENUE
STAMFORD, CONNECTICUT 06901
203-674-0600

CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

CERTIFICATION
FEB 20 2014
WARREN W. SCHAEFER P.E.
P.E. NO. 44135

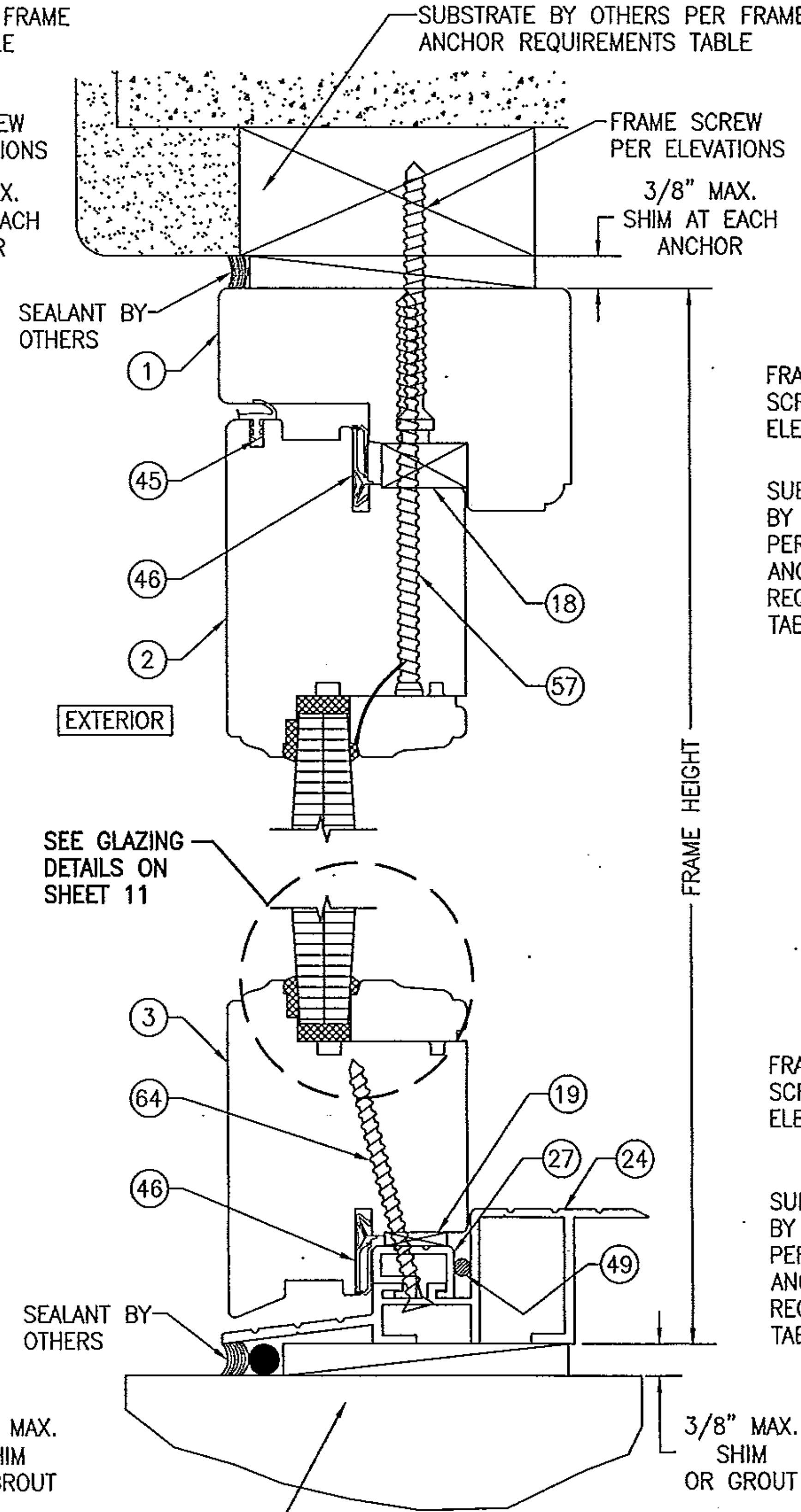
DRAWING NO. 1616
REV. B
SHEET NO. 6 OF 17



SECTION A1/7

SCALE: 1/2 FULL

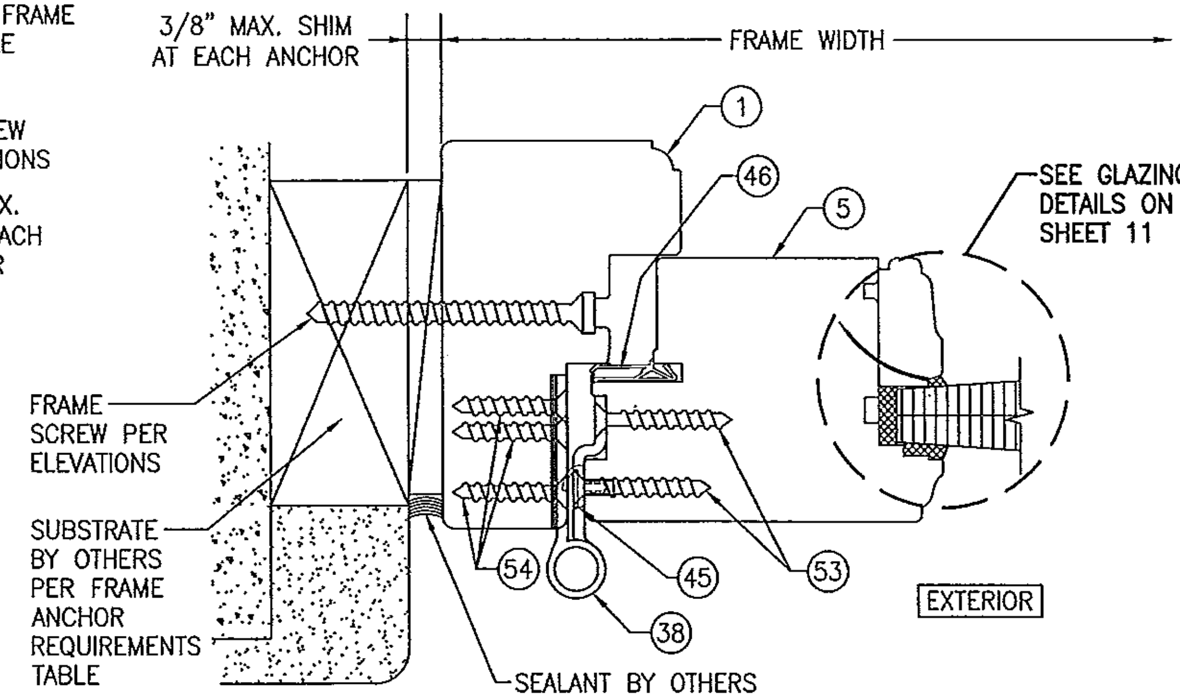
FRAME SCREW INSTALLATION & STANDARD SILL CONDITION SHOWN. SEE OPTIONAL DETAILS FOR OTHER INSTALLATION & SILL CONDITIONS.



SUBSTRATE BY OTHERS PER "FRAME ANCHOR REQUIREMENTS TABLE" (FOR SILL INSTALLATION NOT SHOWN, SEE ANGLE CLIP & INSTALLATION CLIP SILL DETAILS ON SHEETS 13, 14 & 15.

SECTION A2/7

SCALE: 1/2 FULL

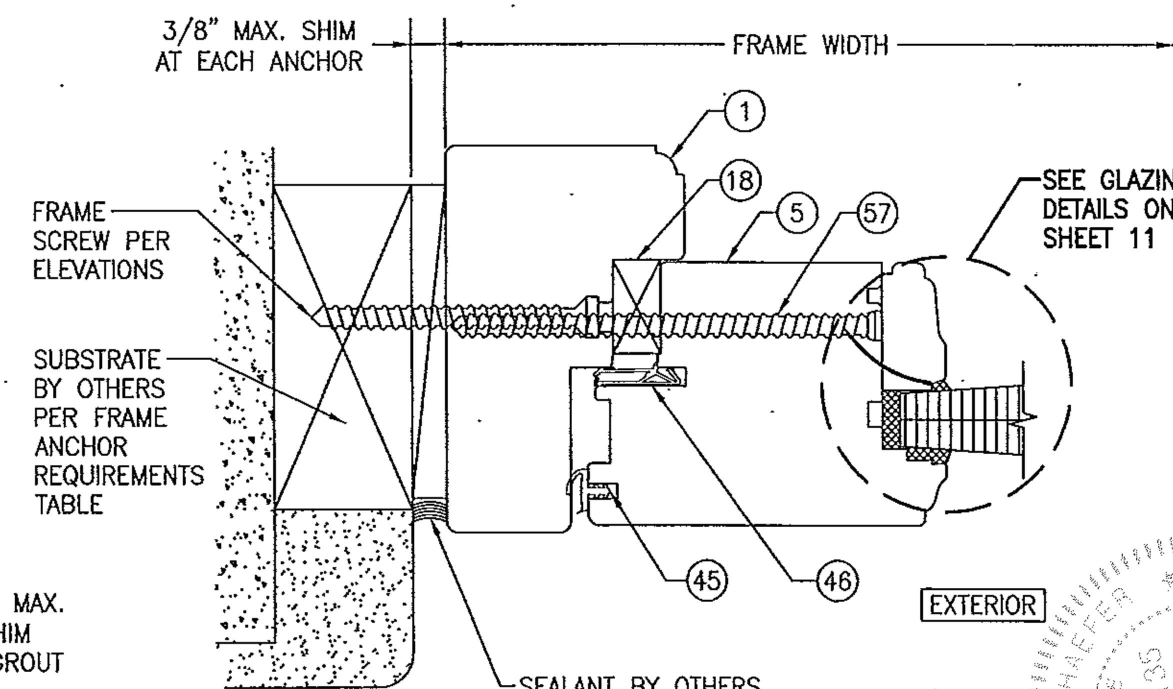


PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 14-0303.08
Expiration Date 5/27/19
By Ishaq I. Chanda
Miami Dade Product Control

SECTION B1/7

SCALE: 1/2 FULL

FRAME SCREW INSTALLATION SHOWN. SEE OPTIONAL DETAILS FOR OTHER INSTALLATION CONDITIONS. (MORTISED BUTT HINGE CONDITION SHOWN, SURFACE MOUNT BUTT HINGE CONDITION ALSO APPLIES)



SECTION B2/7

SCALE: 1/2 FULL

FRAME SCREW INSTALLATION SHOWN. SEE OPTIONAL DETAILS FOR OTHER INSTALLATION CONDITIONS.

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 10/08/08

NO.	REVISION DESCRIPTION	BY	DATE

DRAWING TITLE
OUT-SWING IMPACT WOOD PANEL DOORS

MANUFACTURER
TISCHLER UND SOHN (USA) LTD.
SIX SUBURBAN AVENUE
STAMFORD, CONNECTICUT 06901
203-674-0600

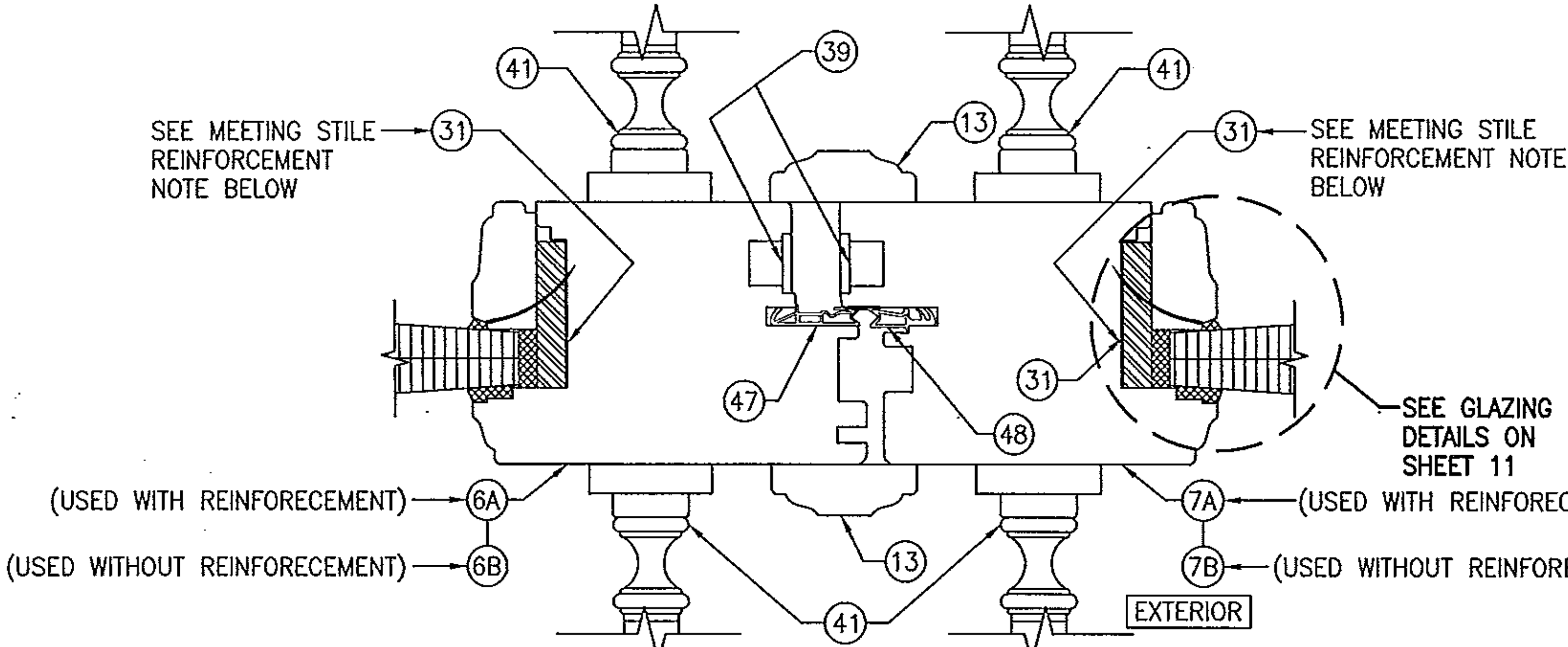
CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

CERTIFICATION
FEB 20 2014
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

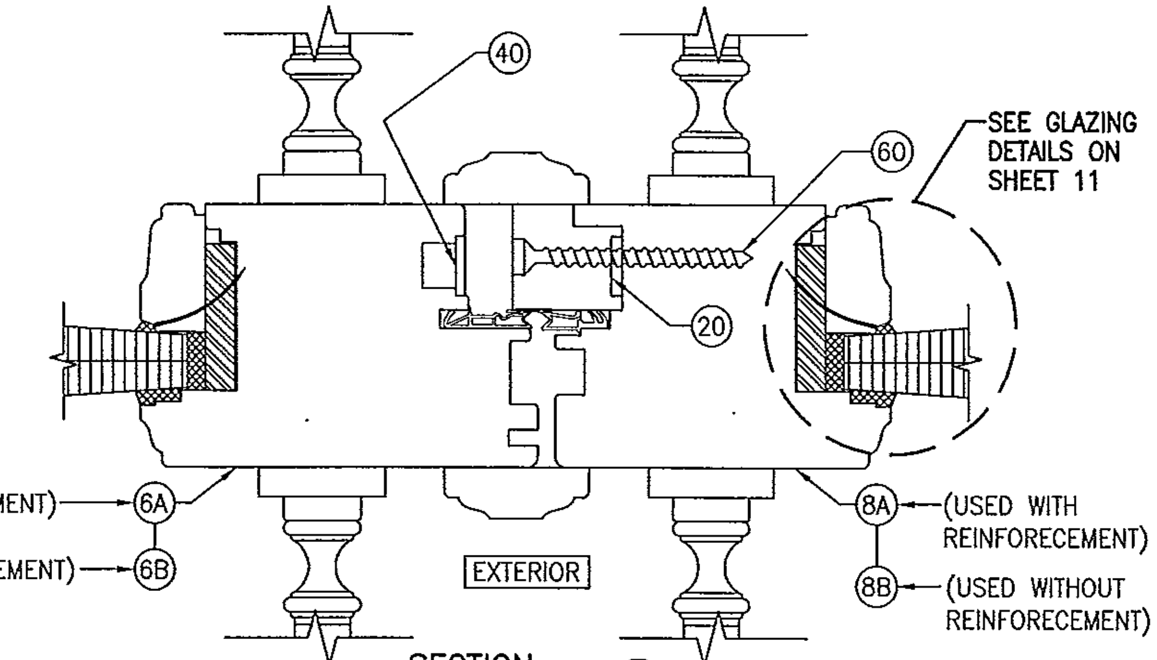
WARREN W. SCHAEFER LICENSE NO. 44135 STATE OF FLORIDA PROFESSIONAL ENGINEER

DRAWING NO. 1616 REV. B

SHEET NO. 7 OF 17

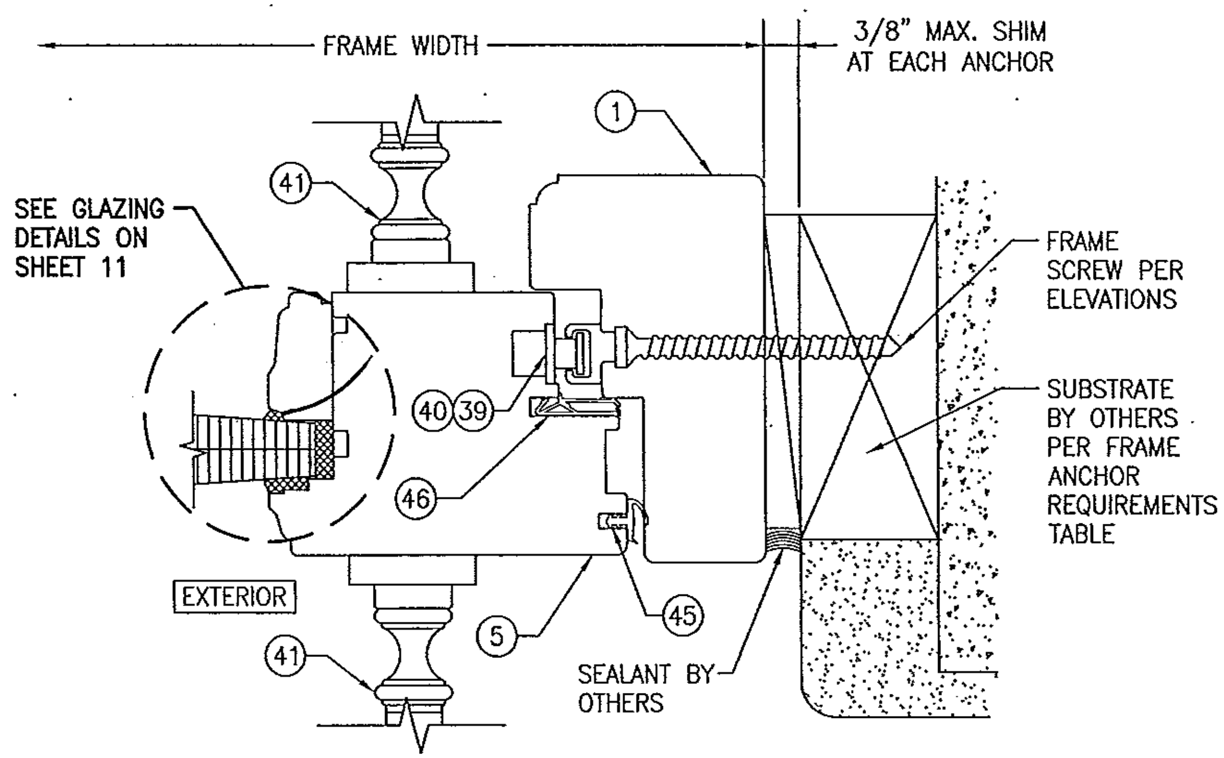


SECTION (C1/8)
SCALE: 1/2 FULL
MEETING STILE CONDITION WITH SIEGENIA MULTI-POINT LOCK SYSTEM

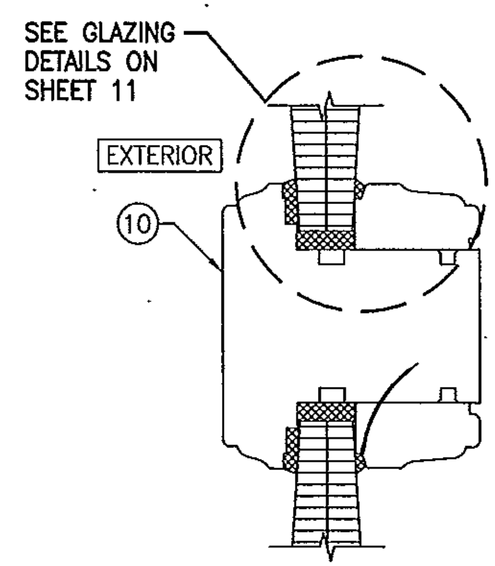


SECTION (C2/8)
SCALE: 1/2 FULL
MEETING STILE CONDITION WITH KFV MULTI-POINT LOCK SYSTEM
(FOR DETAIL NOT SHOWN, SEE SECTION C1/7)

MEETING STILE REINFORCEMENT NOTE:
REINFORCEMENT IS REQUIRED WHEN ANY ONE OF THE FOLLOWING DOOR CONDITIONS EXISTS.
1. WHEN FRAME HEIGHT IS OVER 99".
2. WHEN ADA SILL IS USED (ALL APPLICABLE FRAME HEIGHTS).
3. WHEN JOB REQUIRED DESIGN PRESSURE IS OVER +/-70 PSF.



SECTION (D/8)
SCALE: 1/2 FULL
FRAME SCREW INSTALLATION SHOWN. SEE OPTIONAL DETAILS FOR OTHER INSTALLATION CONDITIONS.



SECTION (E1/8)
SCALE: 1/2 FULL

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 14-0303.08
Expiration Date 5/27/19
By Ishaq I. Chanda
Miami Dade Product Control

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 10/08/08

NO.	REVISION DESCRIPTION	BY	DATE

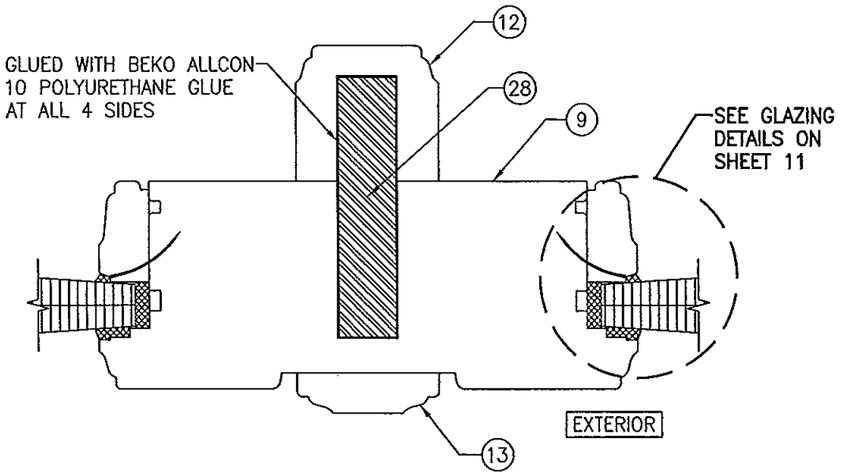
DRAWING TITLE
OUT-SWING IMPACT WOOD PANEL DOORS

MANUFACTURER
TISCHLER UND SOHN (USA) LTD.
SIX SUBURBAN AVENUE
STAMFORD, CONNECTICUT 06901
203-674-0600

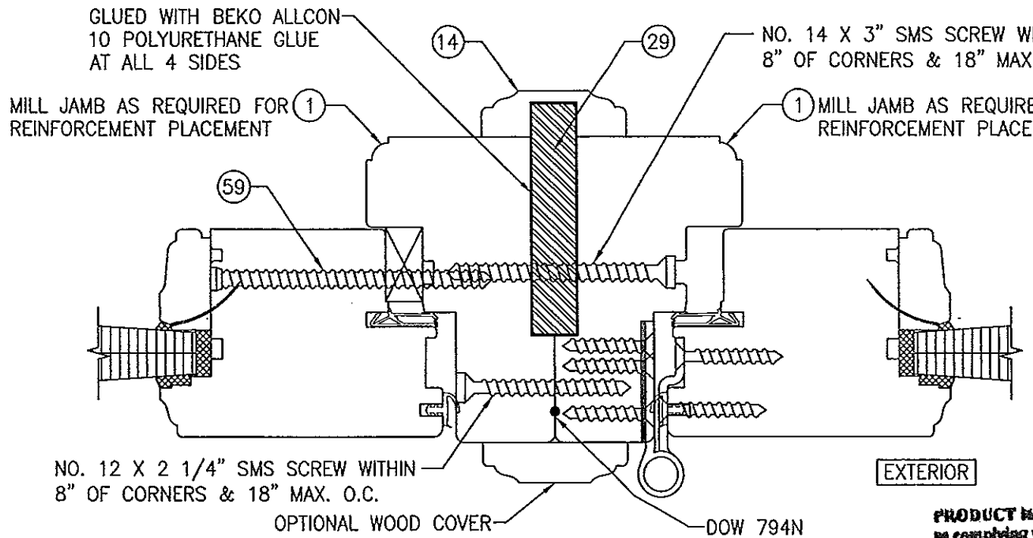
CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

CERTIFICATION
FEB 20 2014
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO. 1616 | REV. B
SHEET NO. 8 OF 17



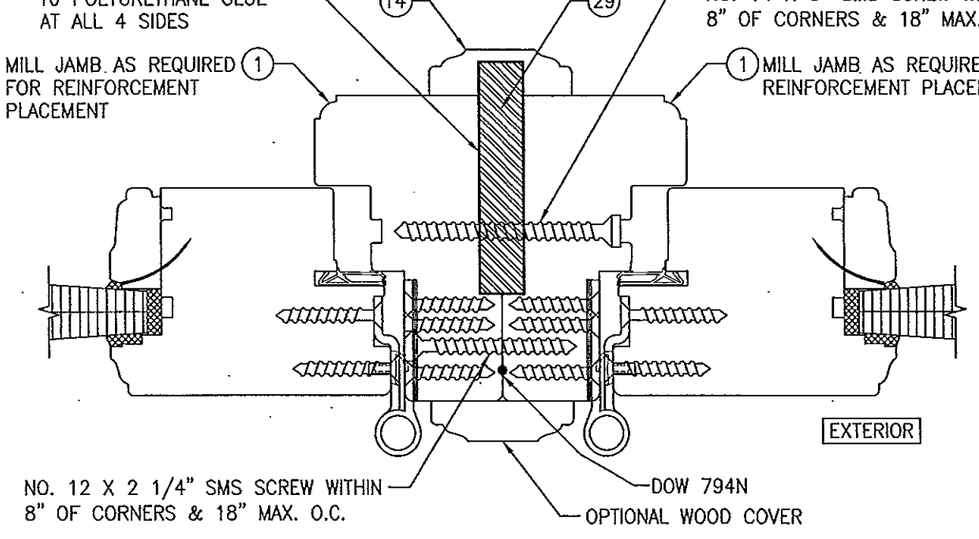
SECTION F/9
SCALE: 1/2 FULL



SECTION G1/9
SCALE: 1/2 FULL

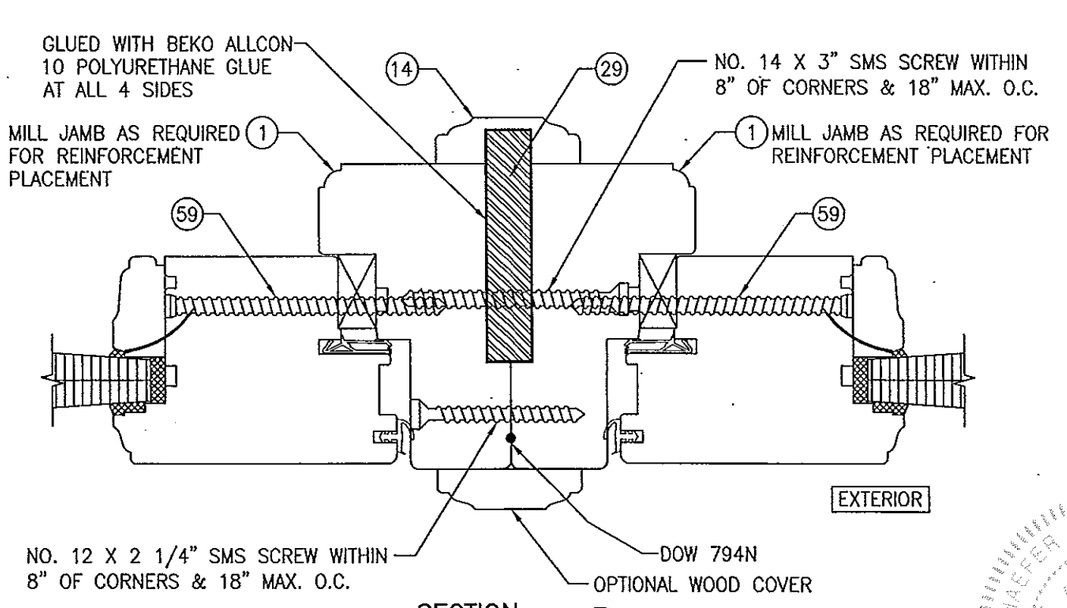
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

PRODUCT REVIEWED
as complying with the Florida
Building Code
Acceptance No. 14030308
Expiration Date 5/27/19
By [signature]
Miami Dade Product Control



SECTION G2/9
SCALE: 1/2 FULL

(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



SECTION G3/9
SCALE: 1/2 FULL

(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

NO.	REVISION DESCRIPTION	BY	DATE

DRAWN BY: W.R.M. | CHECKED BY: W.W.S.
PLOT: T=2 | DATE: 10/08/08

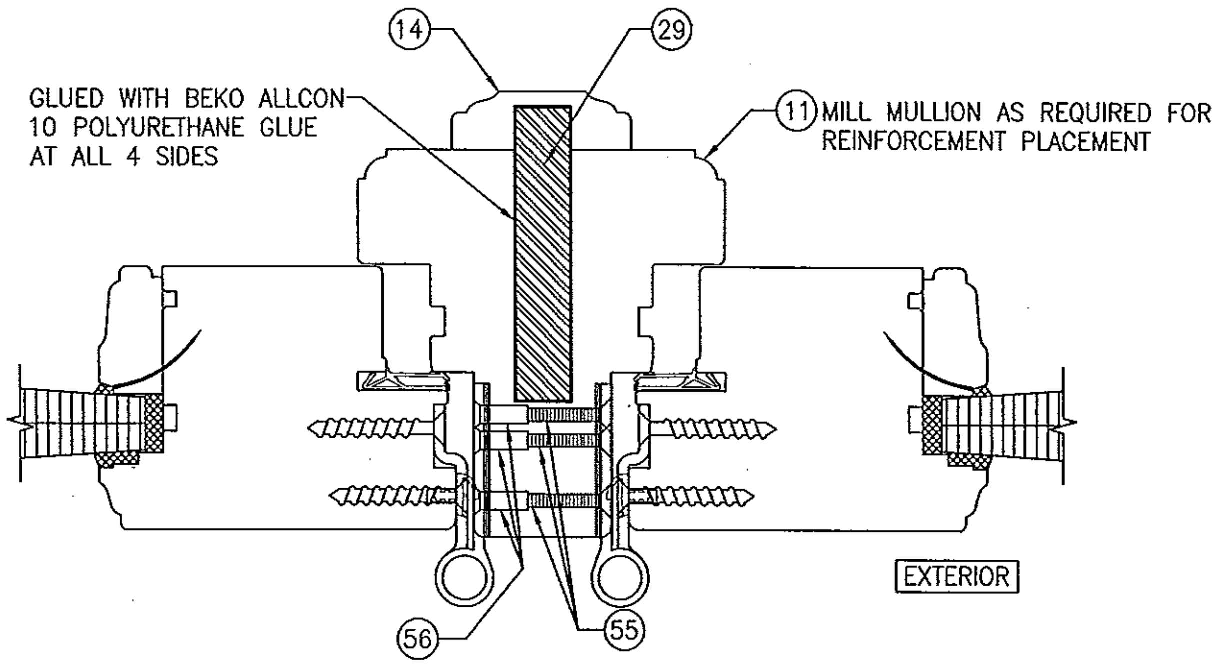
DRAWING TITLE: OUT-SWING IMPACT WOOD PANEL DOORS

MANUFACTURER: TISCHLER UND SOHN (USA) LTD.
SIX SUBURBAN AVENUE
STAMFORD, CONNECTICUT 06901
203-674-0600

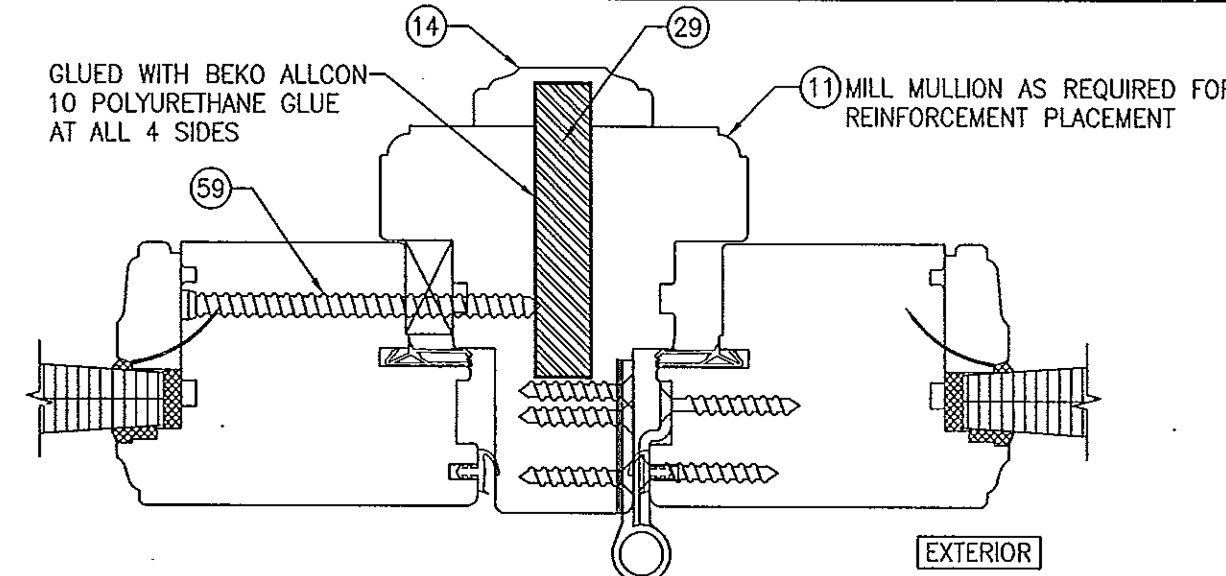
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

CERTIFICATION
FEB 20 2014
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

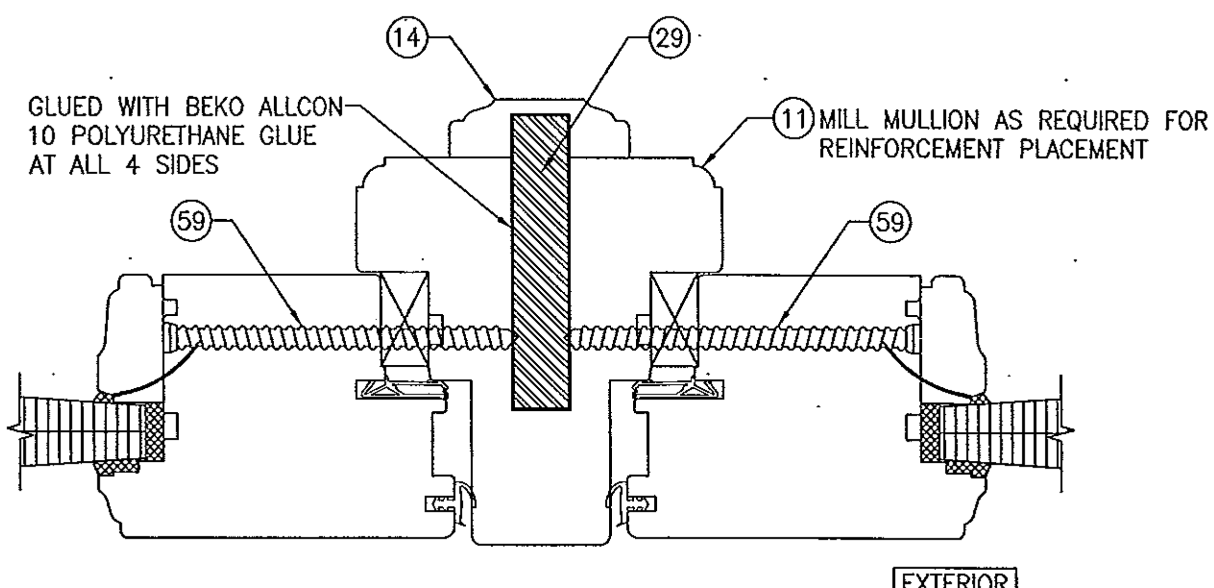
DRAWING NO. 1616 | REV. B
SHEET NO. 9 OF 17



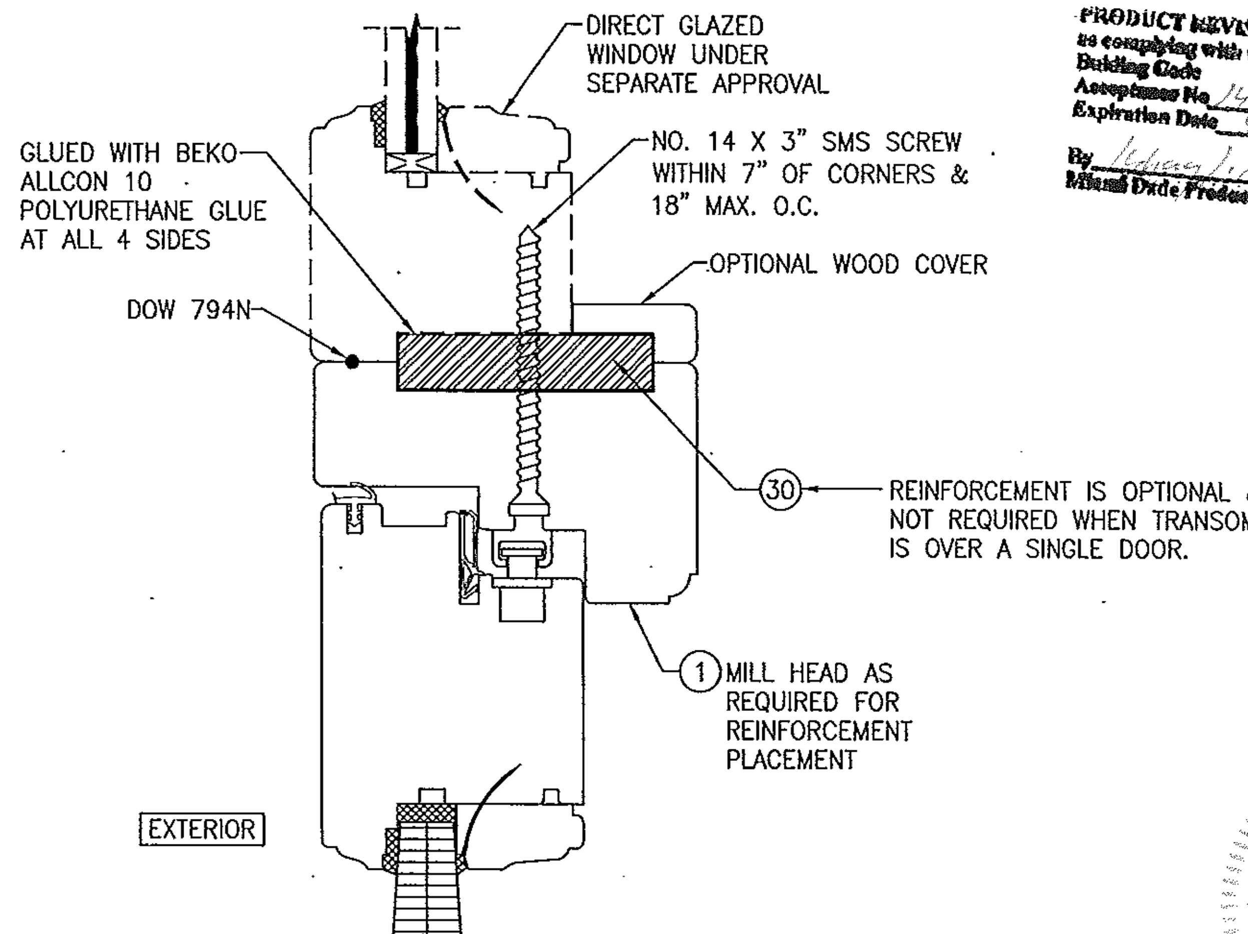
SECTION G4/10
SCALE: 1/2 FULL
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



SECTION G5/10
SCALE: 1/2 FULL
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



SECTION G6/10
SCALE: 1/2 FULL
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



SECTION H1/10
SCALE: 1/2 FULL
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)
(OPERABLE DOOR CONDITION SHOW, FIXED PANEL DOOR IS MULLED THE SAME)

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 14-0303.08
Expiration Date 9/27/19
By [signature]
Miami Dade Product Control

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 10/08/08

NO.	REVISION DESCRIPTION	BY	DATE

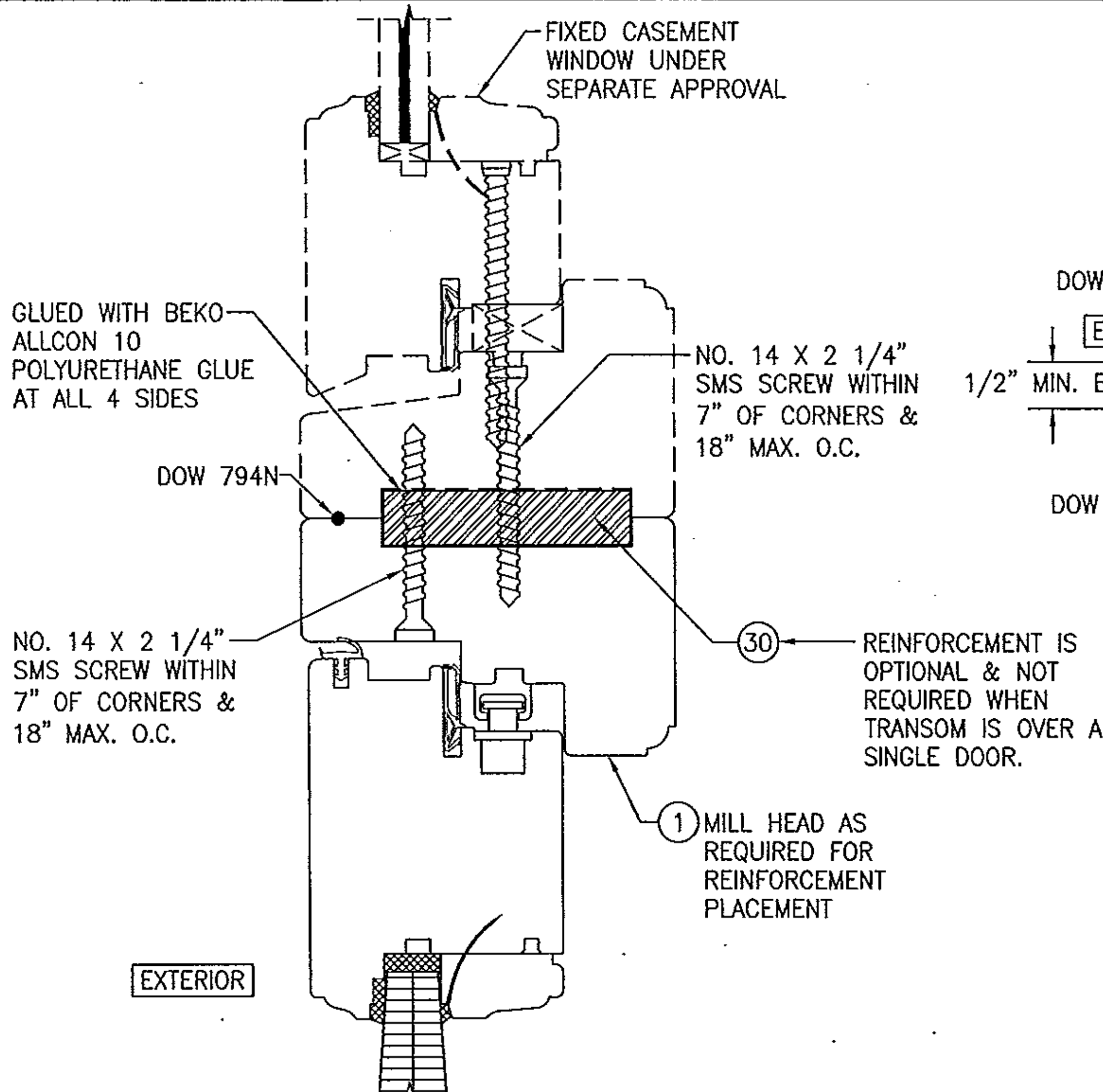
DRAWING TITLE
OUT–SWING IMPACT WOOD PANEL DOORS

MANUFACTURER
TISCHLER UND SOHN (USA) LTD.
SIX SUBURBAN AVENUE
STAMFORD, CONNECTICUT 06901
203–674–0600

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561–744–3424

CERTIFICATION
FEB 20 2014
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

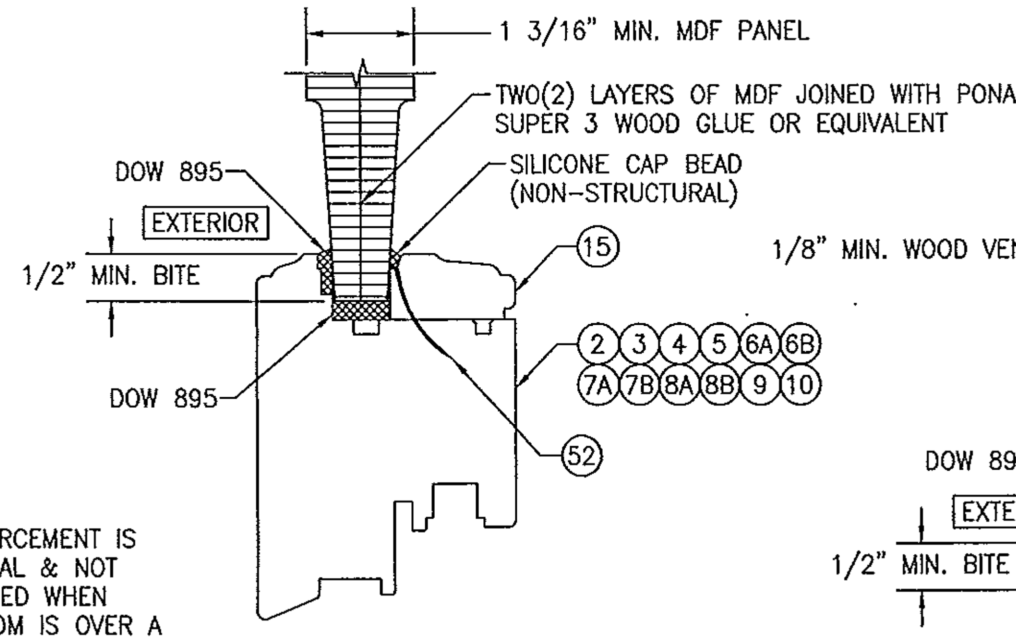
DRAWING NO. 1616 | REV. B
SHEET NO. 10 OF 17



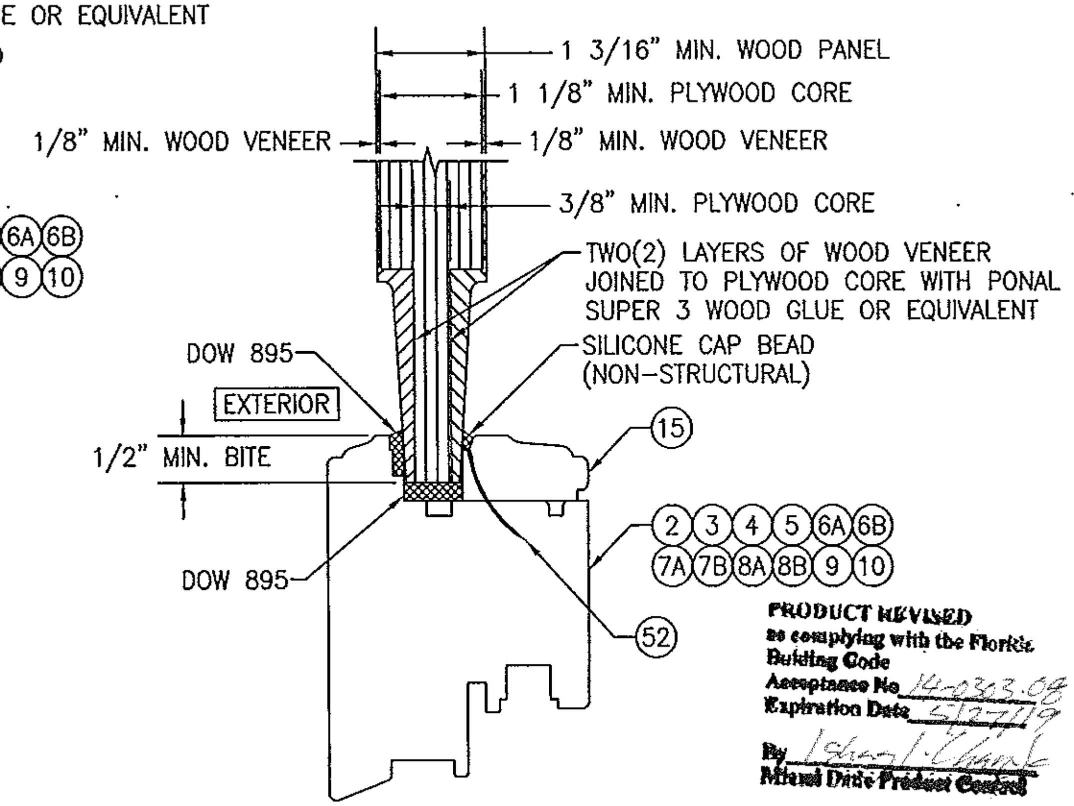
SECTION
SCALE: 1/2 FULL (H2 / 1.1)

(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

(OPERABLE DOOR CONDITION SHOW, FIXED PANEL DOOR IS MULLED THE SAME)



MDF PANEL GLAZING DETAIL



WOOD VENEER PANEL GLAZING DETAIL

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 14-0303.08
Expiration Date 5/27/19
By [signature]
Miami Dade Product Control

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 10/08/08

NO.	REVISION DESCRIPTION	BY	DATE

DRAWING TITLE
OUT–SWING IMPACT WOOD PANEL DOORS

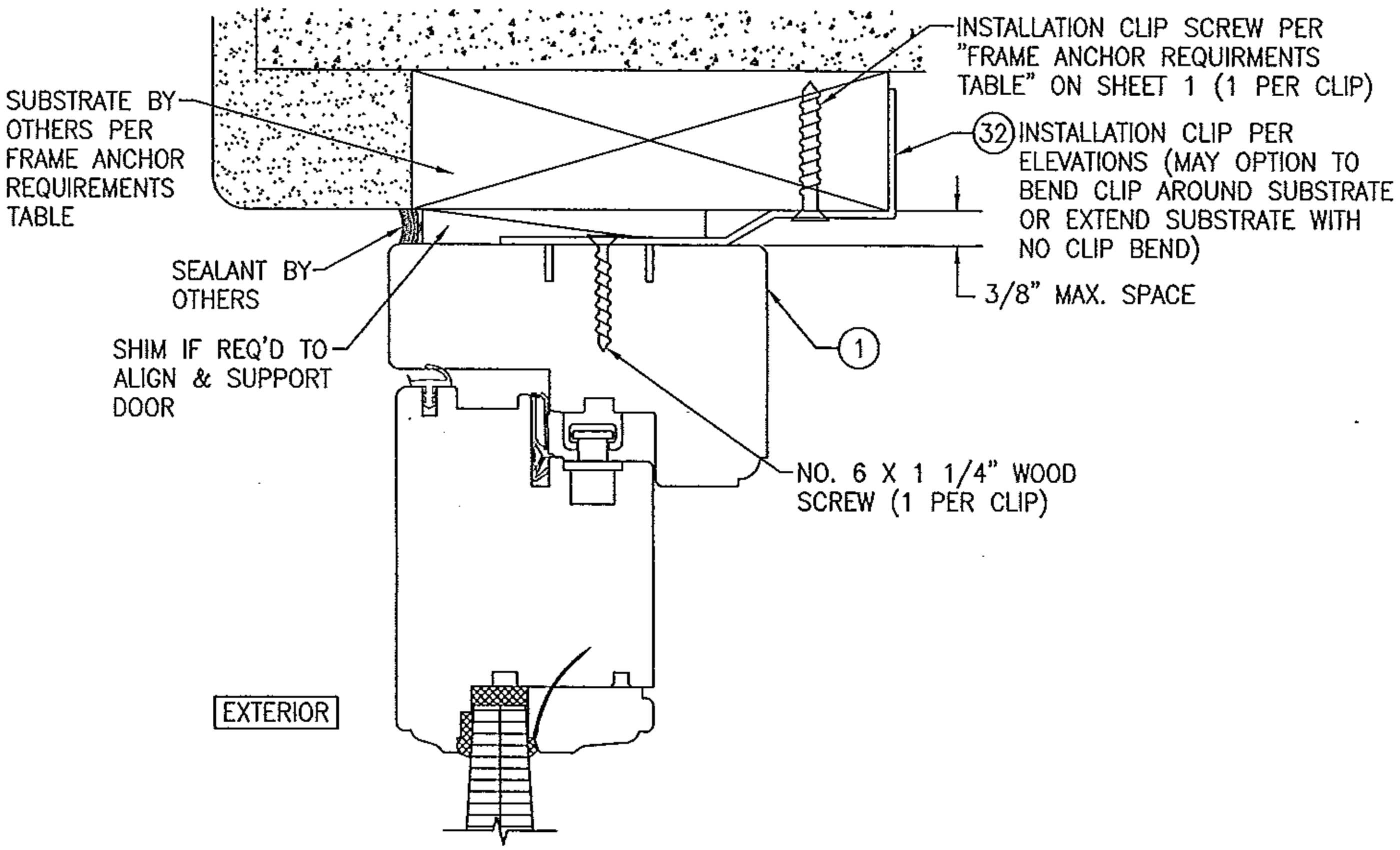
MANUFACTURER
TISCHLER UND SOHN (USA) LTD.
SIX SUBURBAN AVENUE
STAMFORD, CONNECTICUT 06901
203–674–0600

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561–744–3424

CERTIFICATION
FEB 20 2014
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

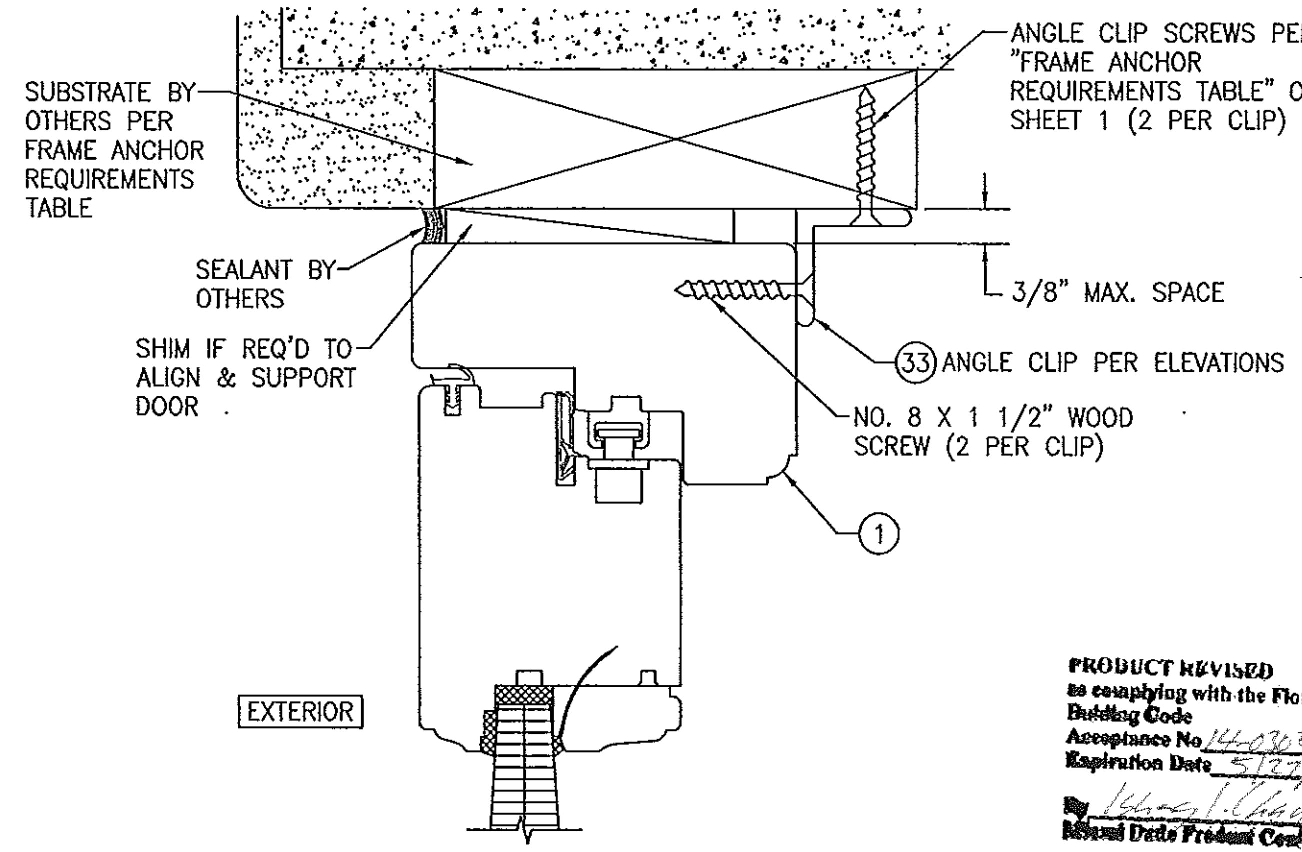
DRAWING NO. 1616 | REV. B

SHEET NO. 11 OF 17



OPTIONAL INSTALLATION CLIP DETAIL

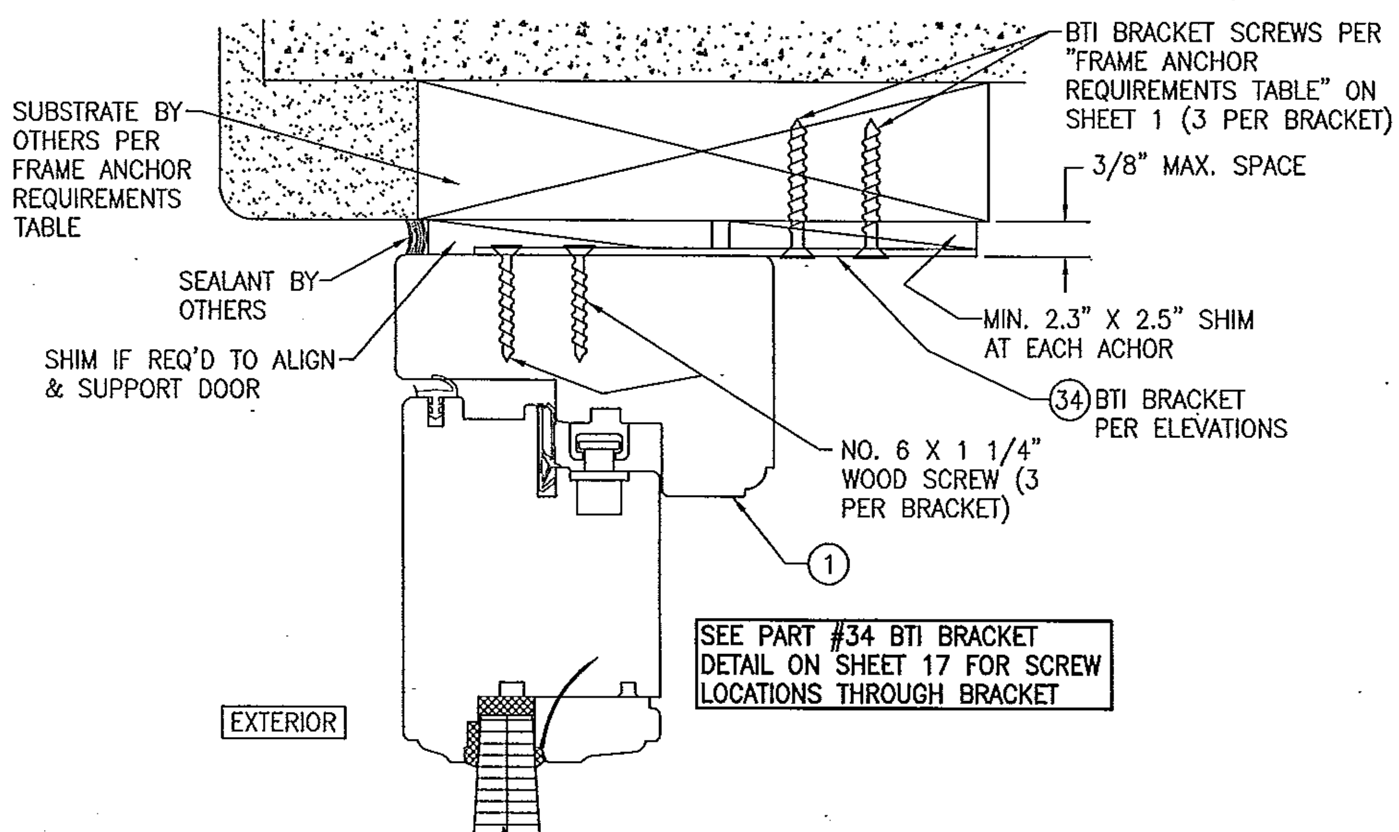
(HEAD SECTION SHOWN, SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



OPTIONAL INSTALLATION ANGLE CLIP DETAIL

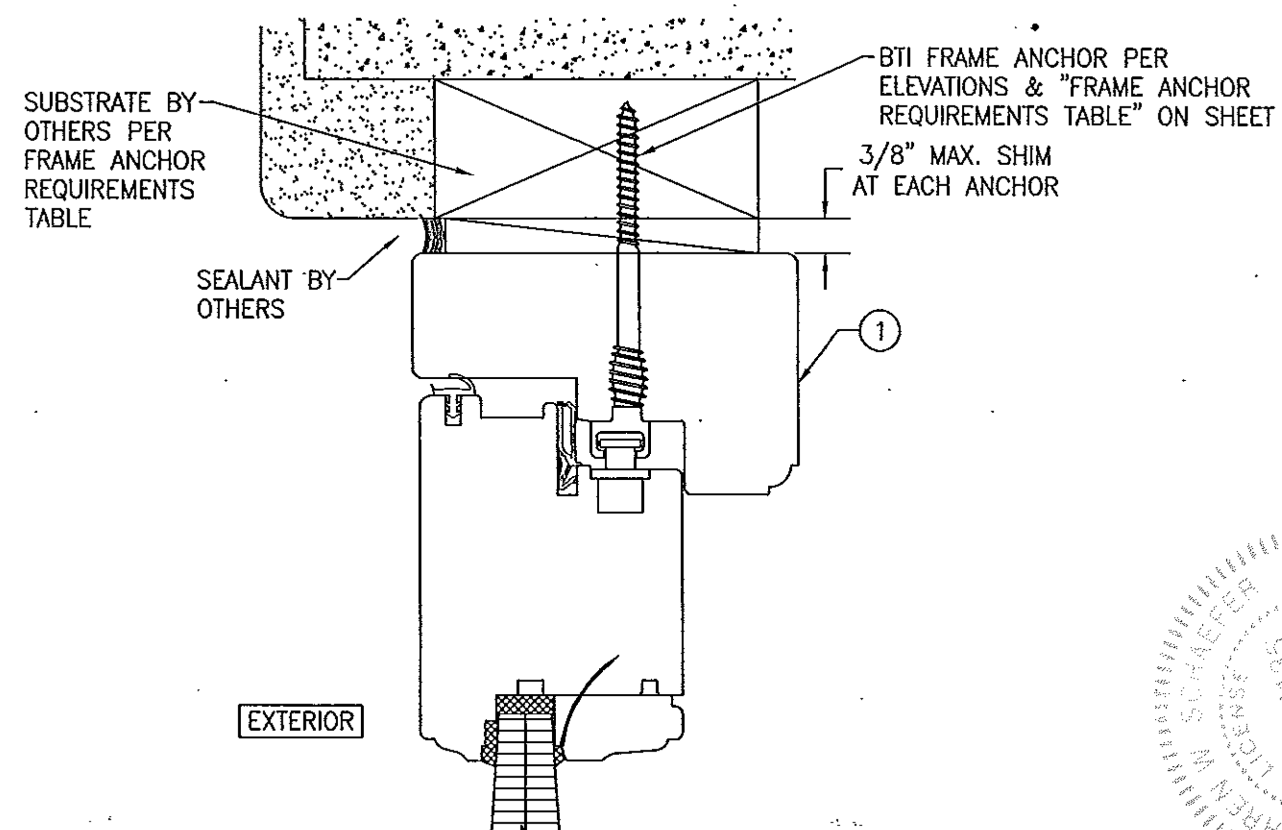
(HEAD SECTION SHOWN, SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 14-0303.08
Expiration Date 5/27/19
By [signature]
Miami Dade Product Control



OPTIONAL INSTALLATION BTI BRACKET DETAIL

(HEAD SECTION SHOWN, SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



OPTIONAL BTI SCREW DETAIL

(HEAD SECTION SHOWN, SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

DRAWN BY: W.R.U.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 10/08/08

NO.	REVISION DESCRIPTION	BY	DATE

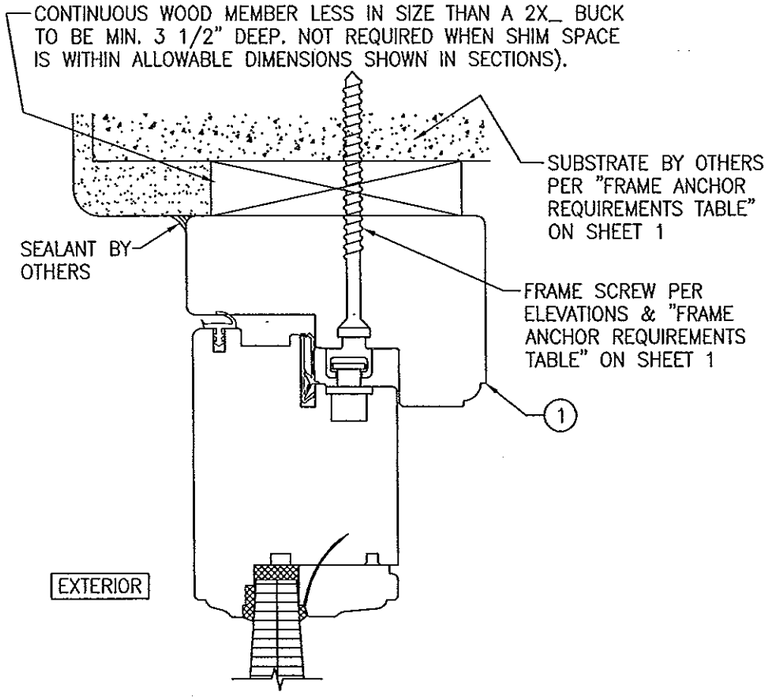
DRAWING TITLE
OUT-SWING IMPACT WOOD PANEL DOORS

MANUFACTURER
TISCHLER UND SOHN (USA) LTD.
SIX SUBURBAN AVENUE
STAMFORD, CONNECTICUT 06901
203-674-0600

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

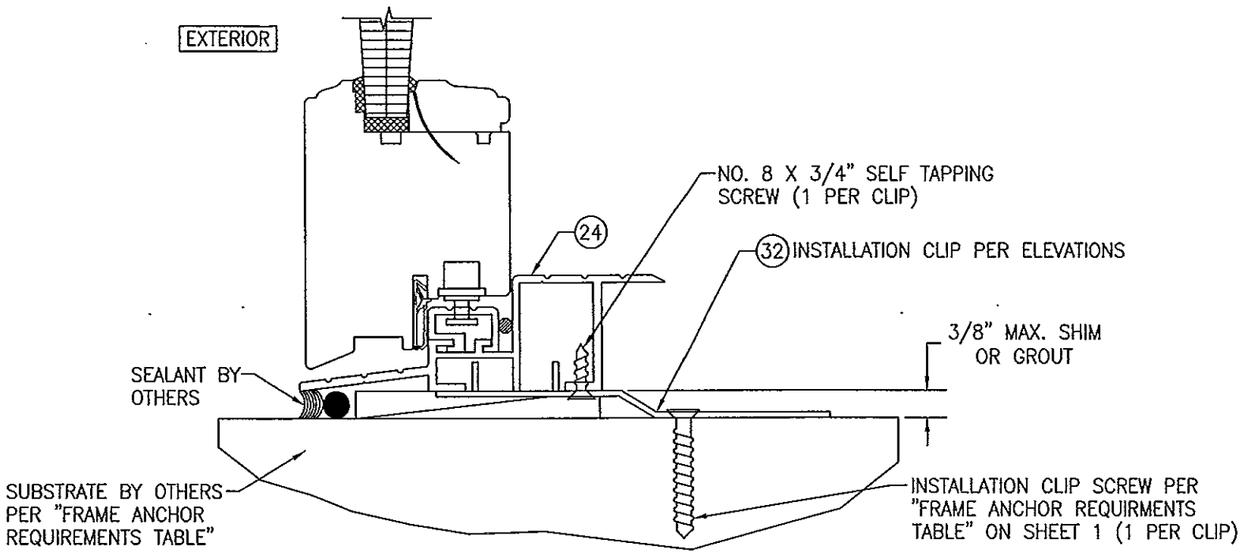
CERTIFICATION
FEB 20 2014
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO. 1616 REV. B
SHEET NO. 12 OF 17



OPTIONAL DIRECT MOUNT DETAIL
TO SUBSTRATE WITH SPACER

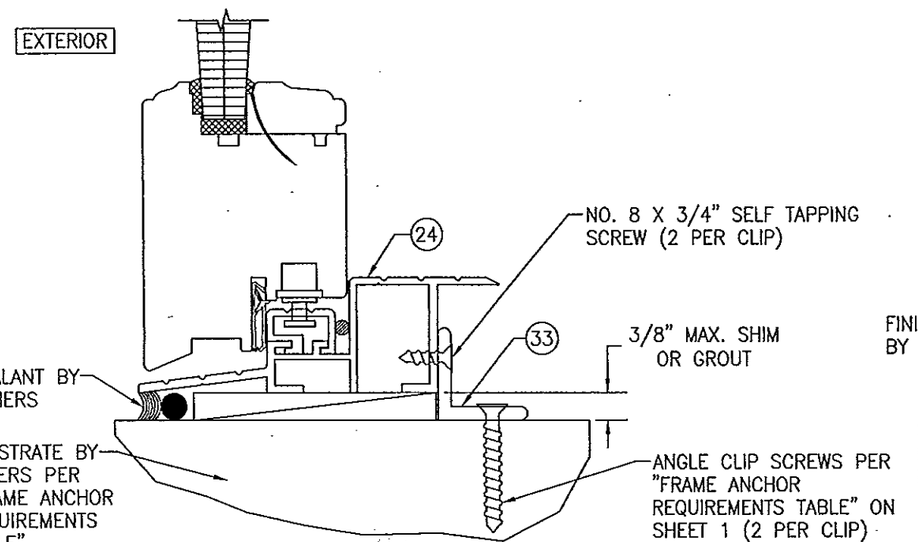
(HEAD SECTION SHOWN, SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



SILL DETAIL (STANDARD SILL INSTALLED WITH INSTALLATION CLIP)

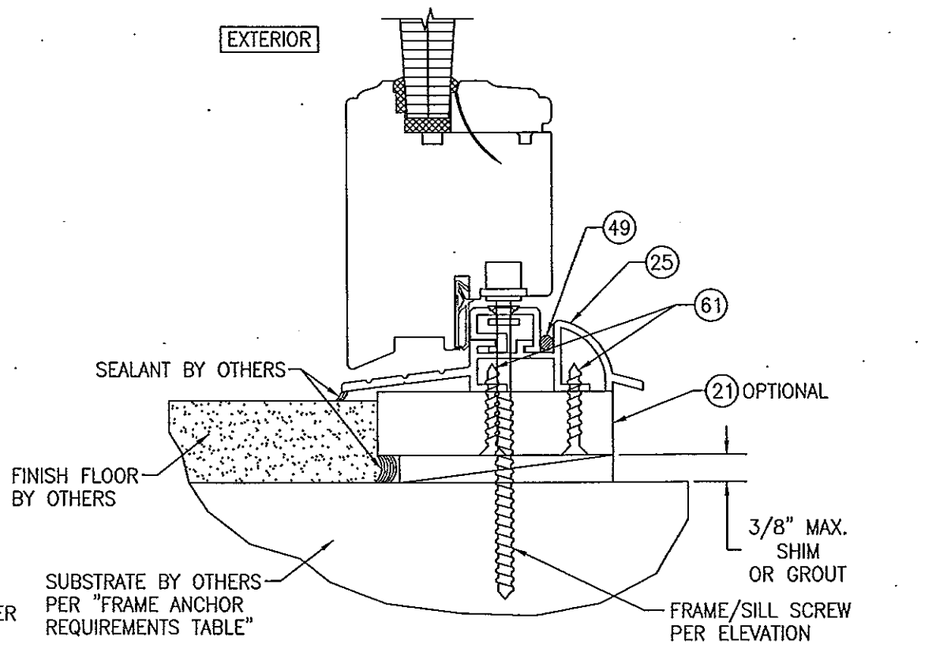
(OPERABLE DOOR CONDITION SHOWN, FIXED PANEL DOORS ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 14038.08
Expiration Date 5/27/19
By
Miami-Dade Product Control



SILL DETAIL (STANDARD SILL INSTALLED WITH ANGLE CLIP)

(OPERABLE DOOR CONDITION SHOWN, FIXED PANEL DOORS ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



SILL DETAIL (OPTIONAL SILL INSTALLED WITH FRAME/SILL SCREW)

(OPERABLE DOOR CONDITION SHOWN, FIXED PANEL DOORS ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 10/08/08

NO.	REVISION DESCRIPTION	BY	DATE

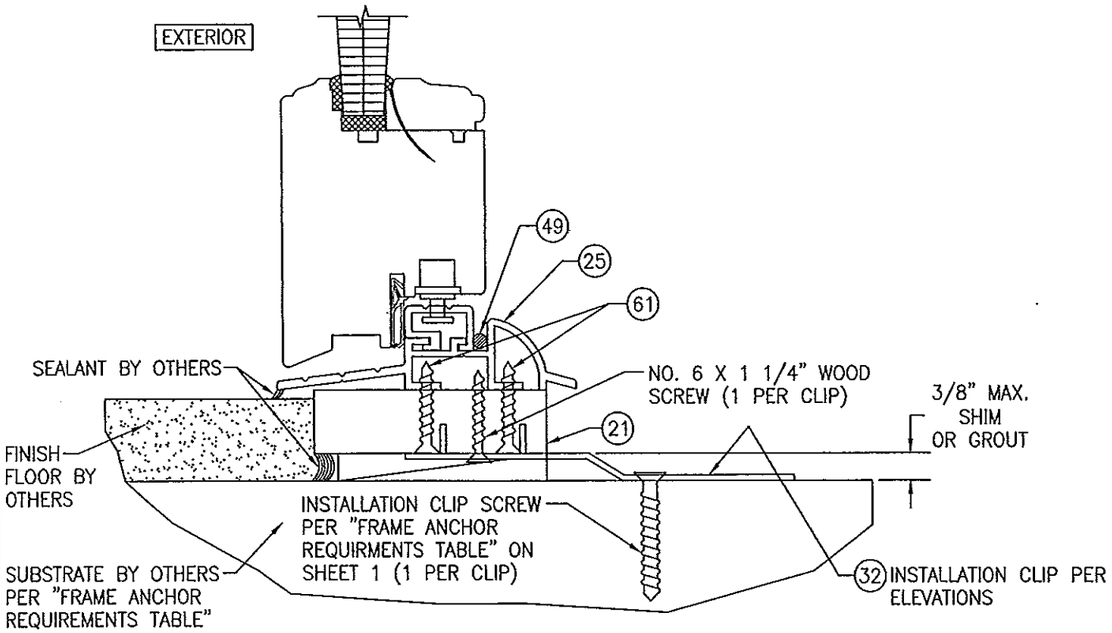
MANUFACTURER
TISCHLER UND SOHN (USA) LTD.
SIX SUBURBAN AVENUE
STAMFORD, CONNECTICUT 06901
203-674-0600

DRAWING TITLE
OUT-SWING IMPACT WOOD PANEL DOORS

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

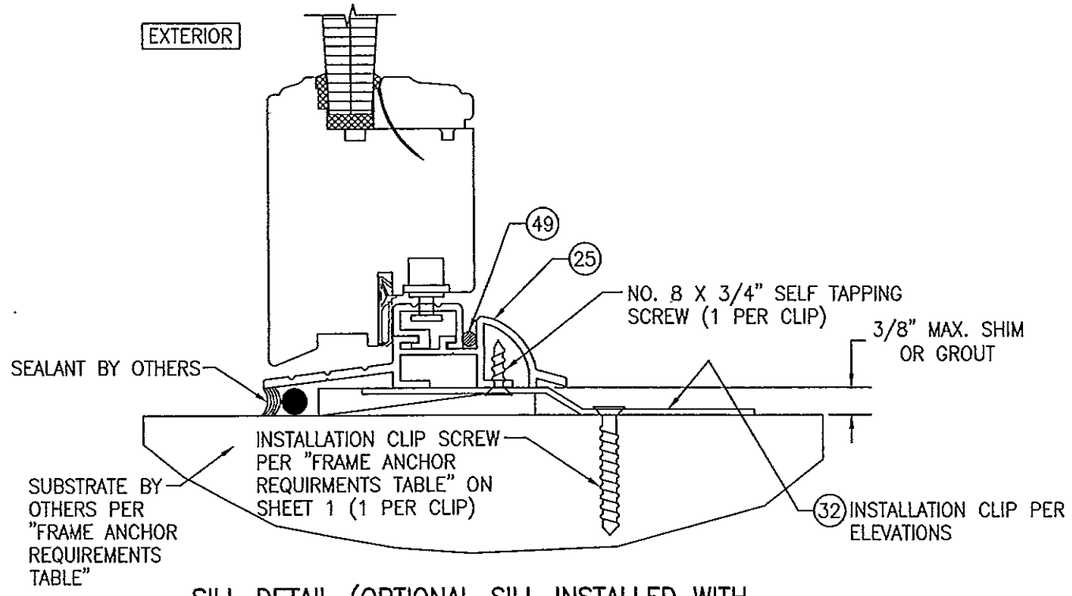
CERTIFICATION
FEB 20 2014
WARREN W. SCHAEFER P.E.
P.E. NO. 44135

DRAWING NO. 1616
REV. B
SHEET NO. 13 OF 17



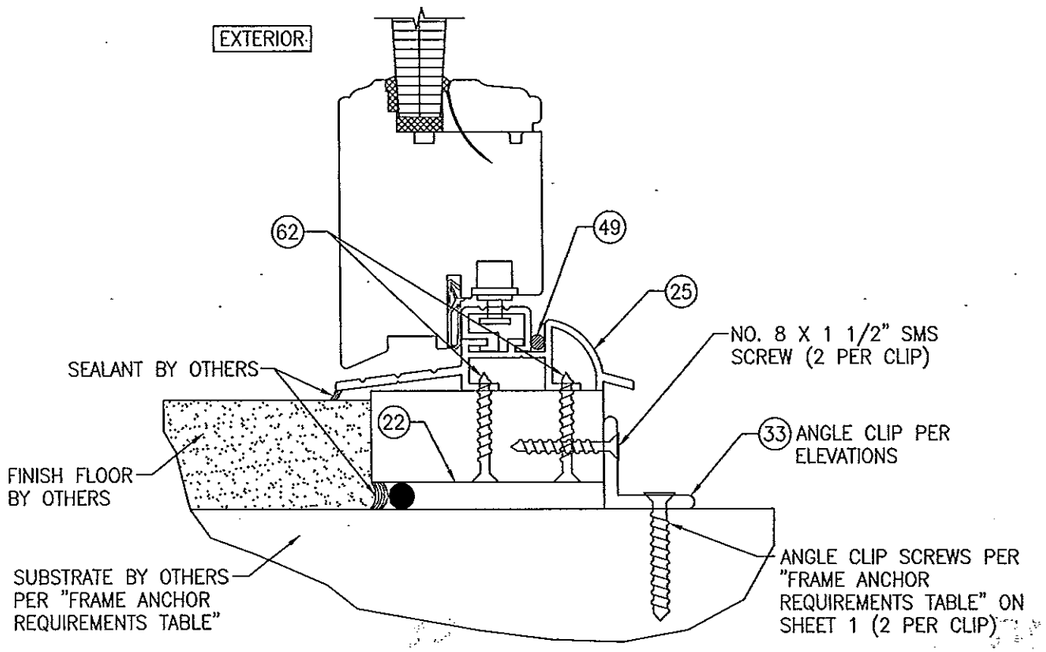
SILL DETAIL (OPTIONAL SILL INSTALLED WITH INSTALLATION CLIP & SUB-SILL)

(OPERABLE DOOR CONDITION SHOWN, FIXED PANEL DOORS ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



SILL DETAIL (OPTIONAL SILL INSTALLED WITH INSTALLATION CLIP & NO SUB-SILL)

(OPERABLE DOOR CONDITION SHOWN, FIXED PANEL DOORS ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



SILL DETAIL (OPTIONAL SILL INSTALLED WITH ANGLE CLIP)

(OPERABLE DOOR CONDITION SHOWN, FIXED PANEL DOORS ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 14030308
Expiration Date 5/27/19
By [signature]
Miami Dade Product Control

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 10/08/08

NO.	REVISION DESCRIPTION	BY	DATE

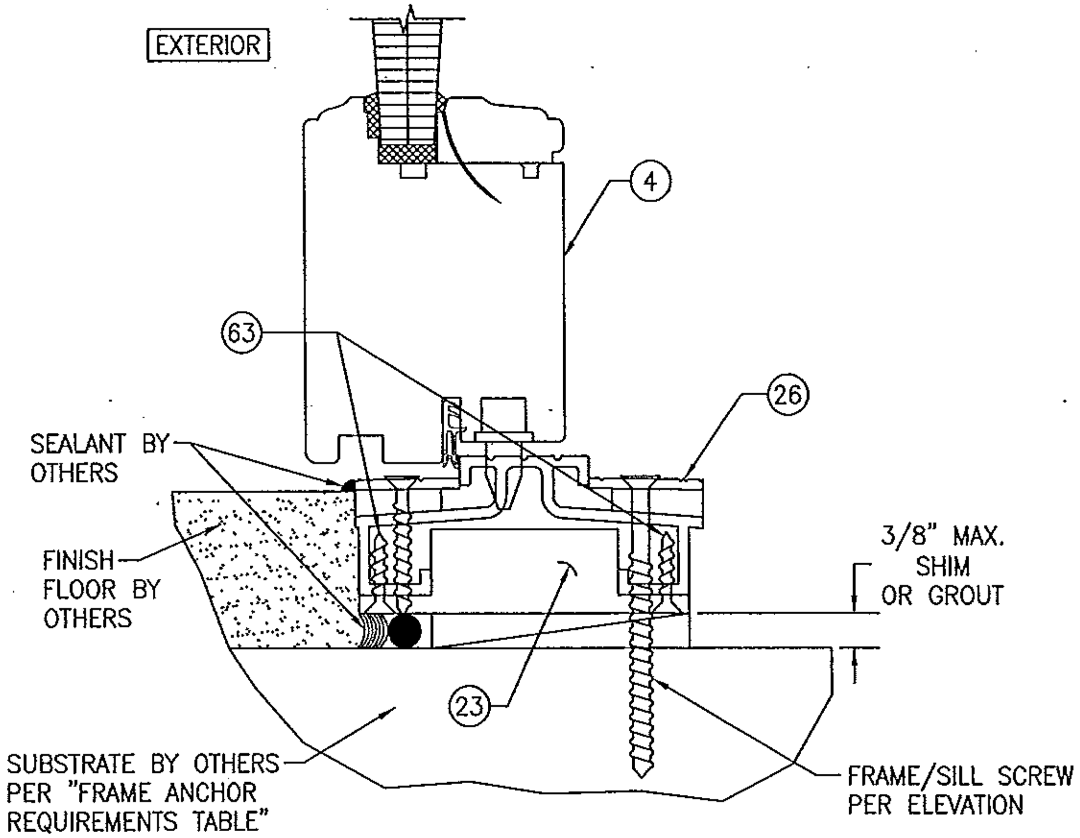
DRAWING TITLE
OUT-SWING IMPACT WOOD PANEL DOORS

MANUFACTURER
TISCHLER UND SOHN (USA) LTD.
SIX SUBURBAN AVENUE
STAMFORD, CONNECTICUT 06901
203-674-0600

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

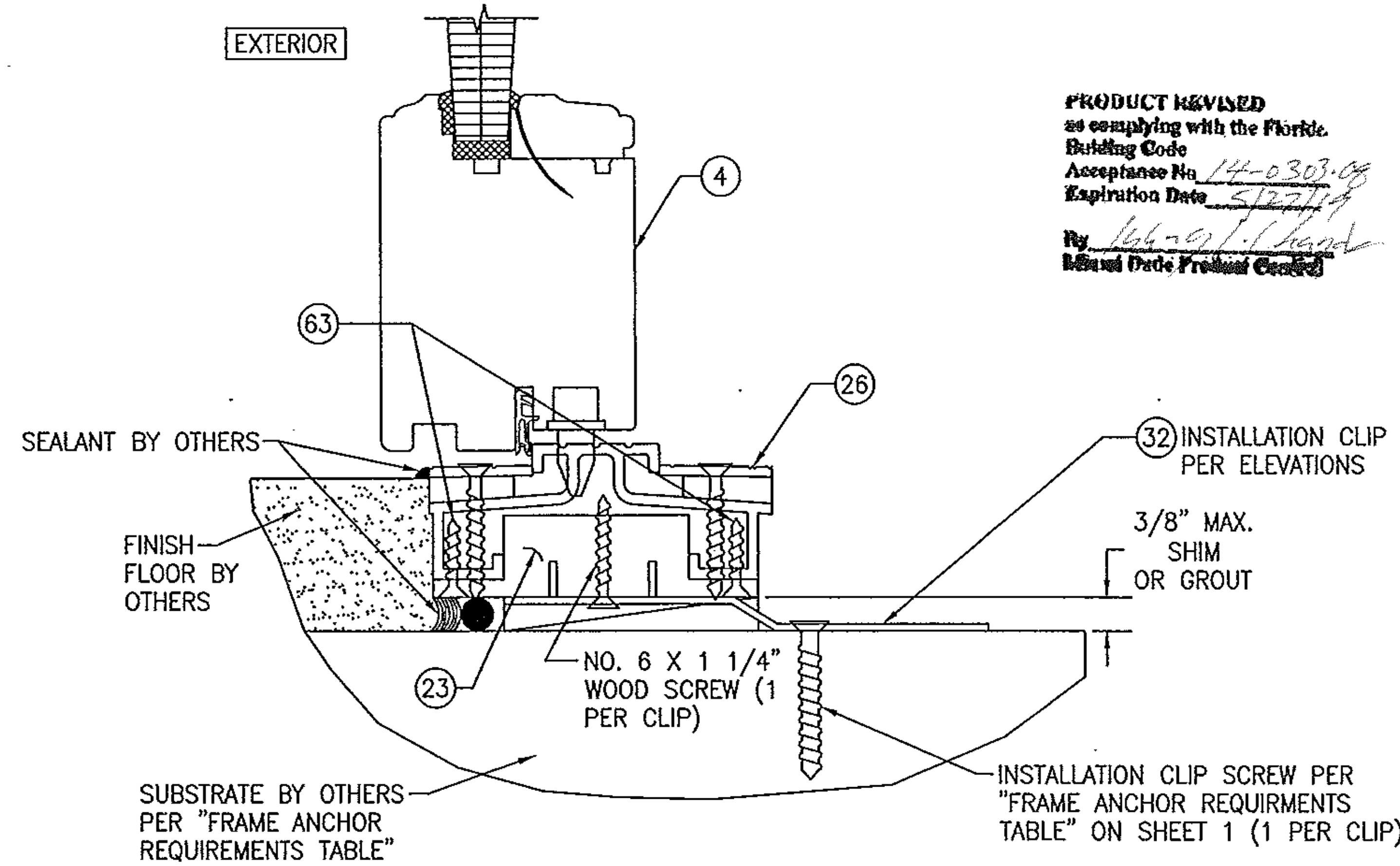
CERTIFICATION
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135
FEB 20 2014

DRAWING NO. 1616
REV. B
SHEET NO. 14 OF 17



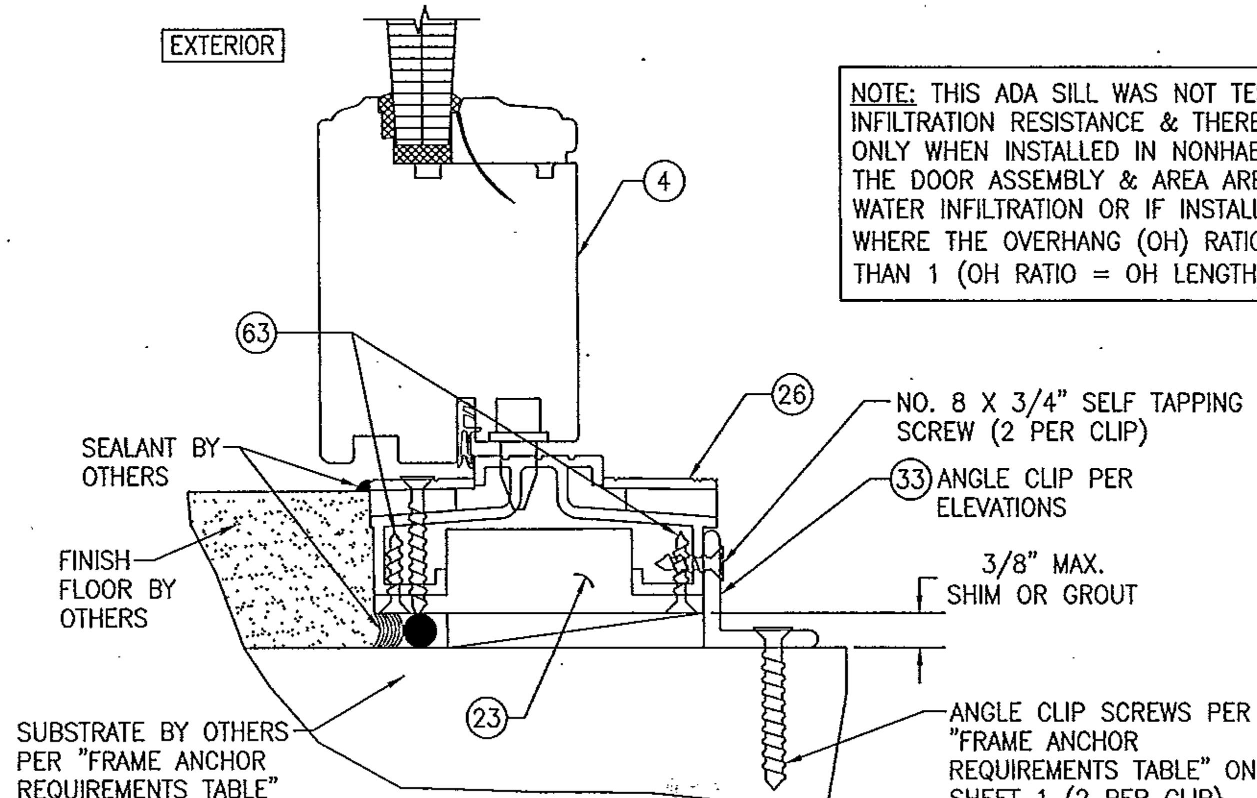
ADA SILL DETAIL (ADA SILL INSTALLED WITH FRAME/SILL SCREW)

(OPERABLE DOOR CONDITION SHOWN, FIXED PANEL DOORS ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



ADA SILL DETAIL (ADA SILL INSTALLED WITH INSTALLATION CLIP)

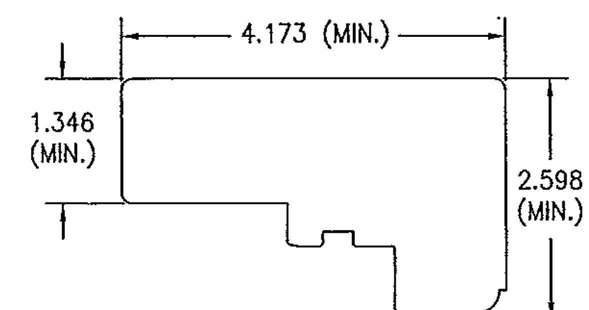
(OPERABLE DOOR CONDITION SHOWN, FIXED PANEL DOORS ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



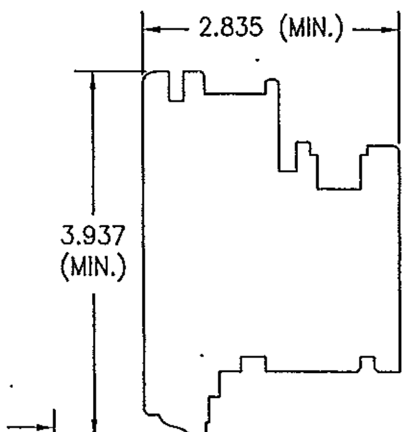
ADA SILL DETAIL (ADA SILL INSTALLED WITH ANGLE CLIP)

(OPERABLE DOOR CONDITION SHOWN, FIXED PANEL DOORS ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

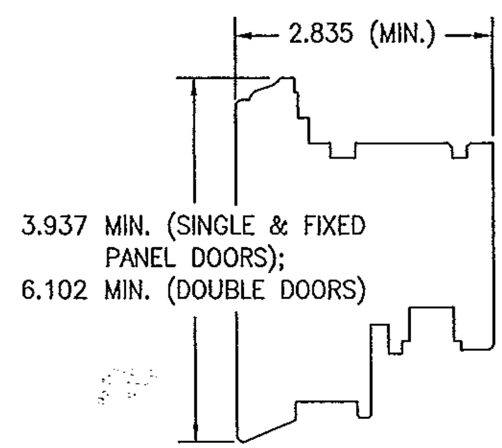
NOTE: THIS ADA SILL WAS NOT TESTED FOR WATER INFILTRATION RESISTANCE & THEREFORE IS ACCEPTABLE ONLY WHEN INSTALLED IN NONHABITABLE AREAS WHERE THE DOOR ASSEMBLY & AREA ARE DESIGNATED TO ACCEPT WATER INFILTRATION OR IF INSTALLED BELOW AN OVERHANG WHERE THE OVERHANG (OH) RATIO IS EQUAL TO OR MORE THAN 1 (OH RATIO = OH LENGTH/OH HEIGHT).



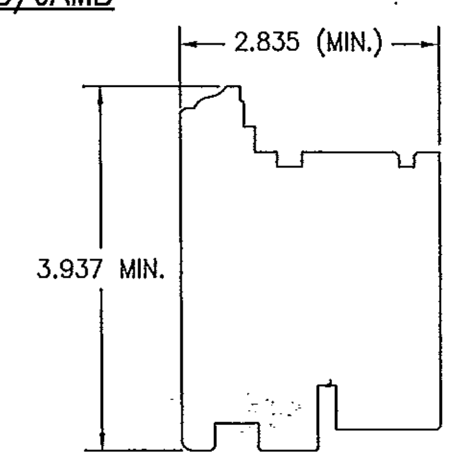
1 HEAD/JAMB



2 TOP RAIL



3 STANDARD BOTTOM RAIL



4 BOTTOM RAIL (USED WITH ADA THRESHOLD)

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 10/08/08

NO.	REVISION DESCRIPTION	BY	DATE

DRAWING TITLE
OUT-SWING IMPACT WOOD PANEL DOORS

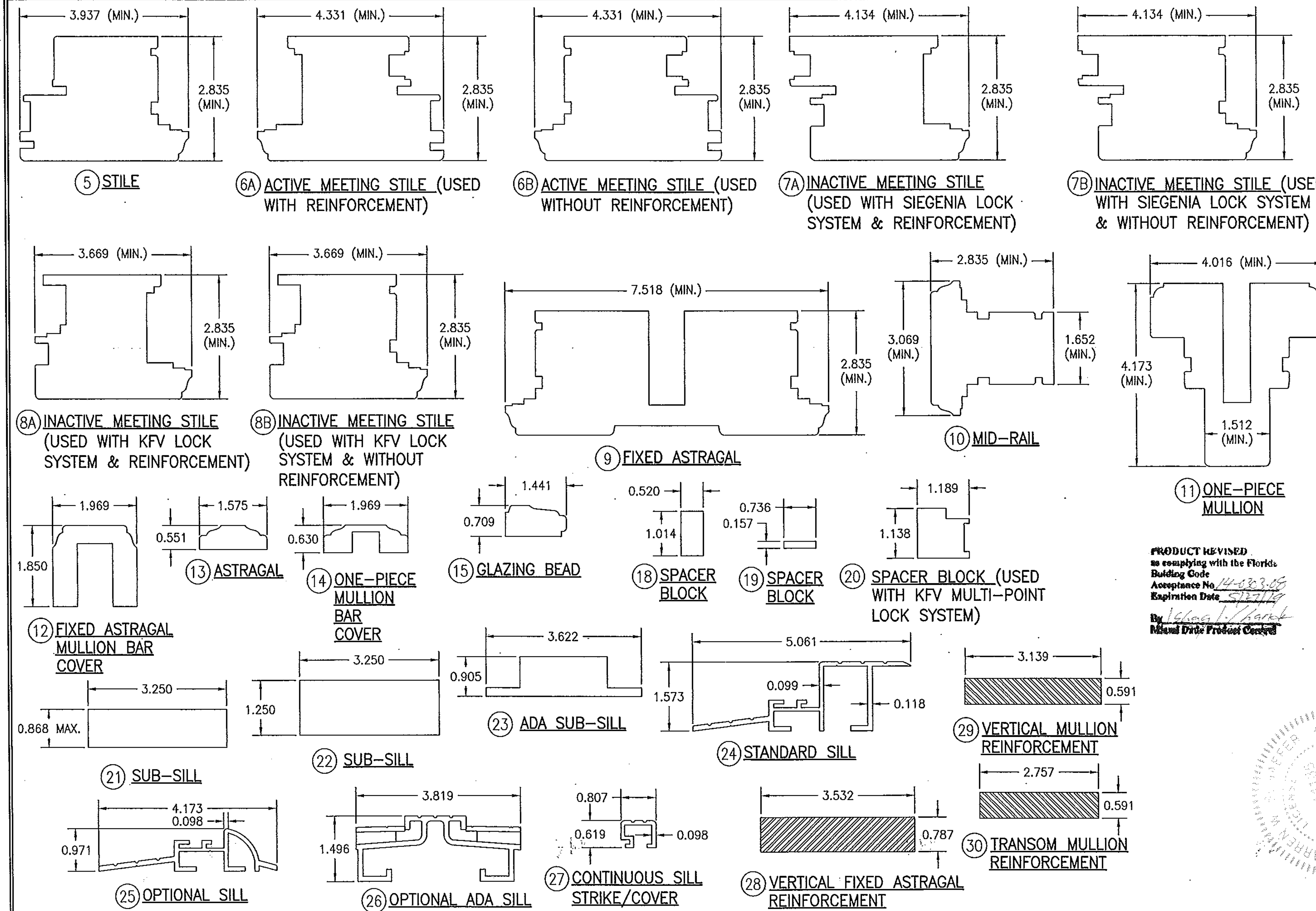
MANUFACTURER
TISCHLER UND SOHN (USA) LTD.
SIX SUBURBAN AVENUE
STAMFORD, CONNECTICUT 06901
203-674-0600

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

CERTIFICATION
FEB 20 2014
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO. 1616 REV. B

SHEET NO. 15 OF 17


3.937 (MIN.)
2.835 (MIN.)
5 STILE
4.331 (MIN.)
2.835 (MIN.)
6A ACTIVE MEETING STILE (USED WITH REINFORCEMENT)
4.331 (MIN.)
2.835 (MIN.)
6B ACTIVE MEETING STILE (USED WITHOUT REINFORCEMENT)
4.134 (MIN.)
2.835 (MIN.)
7A INACTIVE MEETING STILE (USED WITH SIEGENIA LOCK SYSTEM & REINFORCEMENT)
4.134 (MIN.)
2.835 (MIN.)
7B INACTIVE MEETING STILE (USED WITH SIEGENIA LOCK SYSTEM & WITHOUT REINFORCEMENT)
3.669 (MIN.)
2.835 (MIN.)
8A INACTIVE MEETING STILE (USED WITH KFV LOCK SYSTEM & REINFORCEMENT)
3.669 (MIN.)
2.835 (MIN.)
8B INACTIVE MEETING STILE (USED WITH KFV LOCK SYSTEM & WITHOUT REINFORCEMENT)
7.518 (MIN.)
2.835 (MIN.)
9 FIXED ASTRAGAL
2.835 (MIN.)
3.069 (MIN.)
1.652 (MIN.)
10 MID-RAIL
4.016 (MIN.)
4.173 (MIN.)
1.512 (MIN.)
11 ONE-PIECE MULLION
1.969
1.850
12 FIXED ASTRAGAL MULLION BAR COVER
1.575
0.551
13 ASTRAGAL
1.969
0.630
14 ONE-PIECE MULLION BAR COVER
1.441
0.709
15 GLAZING BEAD
0.520
1.014
18 SPACER BLOCK
0.736
0.157
19 SPACER BLOCK
1.189
1.138
20 SPACER BLOCK (USED WITH KFV MULTI-POINT LOCK SYSTEM)
3.250
0.868 MAX.
21 SUB-SILL
3.250
1.250
22 SUB-SILL
3.622
0.905
23 ADA SUB-SILL
5.061
1.573
0.099
0.118
24 STANDARD SILL
4.173
0.098
0.971
25 OPTIONAL SILL
3.819
1.496
26 OPTIONAL ADA SILL
0.807
0.619
0.098
27 CONTINUOUS SILL STRIKE/COVER
3.532
0.787
28 VERTICAL FIXED ASTRAGAL REINFORCEMENT
3.139
0.591
29 VERTICAL MULLION REINFORCEMENT
2.757
0.591
30 TRANSOM MULLION REINFORCEMENT

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 14-0303.05
Expiration Date 5/27/19
By Ishaq I. Chanda
Miami Dade Product Control

DRAWN BY: W.R.M. | CHECKED BY: W.W.S.
PLOT: 1=2 | DATE: 10/08/08

NO. | REVISION DESCRIPTION | BY | DATE

DRAWING TITLE
OUT-SWING IMPACT WOOD PANEL DOORS

MANUFACTURER
TISCHLER UND SOHN (USA) LTD.
SIX SUBURBAN AVENUE
STAMFORD, CONNECTICUT 06901
203-674-0600

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

CERTIFICATION
FEB 20 2014
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

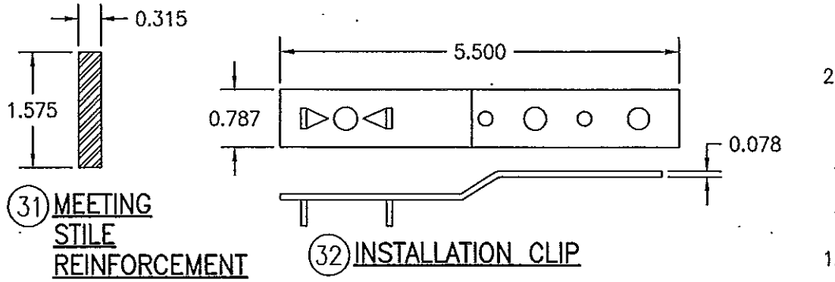
DRAWING NO. 1616 | REV. B
SHEET NO. 16 OF 17

ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
	PARTS	
1	HEAD/JAMB	MAHOGANY
2	TOP RAIL	MAHOGANY
3	STANDARD BOTTOM RAIL	MAHOGANY
4	BOTTOM RAIL (USED WITH ADA THRESHOLD)	MAHOGANY
5	STILE	MAHOGANY
6A	ACTIVE MEETING STILE (USED WITH REINFORCEMENT)	MAHOGANY
6B	ACTIVE MEETING STILE (USED WITHOUT REINFORCEMENT)	MAHOGANY
7A	INACTIVE MEETING STILE (USED WITH SIEGENIA LOCK SYSTEM & REINFORCEMENT)	MAHOGANY
7B	INACTIVE MEETING STILE (USED WITH SIEGENIA LOCK SYSTEM & WITHOUT REINFORCEMENT)	MAHOGANY
8A	INACTIVE MEETING STILE (USED WITH KFV LOCK SYSTEM & REINFORCEMENT)	MAHOGANY
8B	INACTIVE MEETING STILE (USED WITH KFV LOCK SYSTEM & WITHOUT REINFORCEMENT)	MAHOGANY
9	FIXED ASTRAGAL	MAHOGANY
10	MID-RAIL	MAHOGANY
11	ONE-PIECE MULLION	MAHOGANY
12	FIXED ASTRAGAL MULLION BAR COVER	MAHOGANY
13	ASTRAGAL	MAHOGANY
14	ONE-PIECE MULLION BAR COVER	MAHOGANY
15	GLAZING BEAD	MAHOGANY
18	SPACER BLOCK	MAHOGANY
19	SPACER BLOCK	MAHOGANY
20	SPACER BLOCK (USED WITH KFV MULTI-POINT LOCK SYSTEM)	MAHOGANY
21	SUB-SILL	MAHOGANY
22	SUB-SILL	MAHOGANY
23	ADA SUB-SILL	MAHOGANY
24	STANDARD SILL	BRONZE
25	OPTIONAL SILL	BRONZE
26	OPTIONAL ADA SILL	BRONZE
27	CONTINUOUS SILL STRIKE/COVER	BRONZE
28	VERTICAL FIXED ASTRAGAL REINFORCEMENT	34 KSI STAINLESS STEEL OR A36 STEEL
29	VERTICAL MULLION REINFORCEMENT	34 KSI STAINLESS STEEL OR A36 STEEL
30	TRANSOM MULLION REINFORCEMENT	34 KSI STAINLESS STEEL OR A36 STEEL
31	MEETING STILE REINFORCEMENT	34 KSI STAINLESS STEEL OR A36 STEEL
32	INSTALLATION CLIP	GALVANIZED 54 KSI STEEL
33	ANGLE CLIP	6061-T6 ALUMINUM
34	BTI BRACKET	GALVANIZED 54 KSI STEEL
	HARDWARE	
38	BUTT HINGE	BY: GENIATEC GMBH
39	MULTI-POINT LOCK SYSTEM	BY: KFV: STRAIGHT SHOOT
40	MULTI-POINT LOCK SYSTEM	BY: SIEGENIA AUBI KG TYPE: MUSHROOM
41	HANDLE	AS REQUIRED TO OPERATE LOCK SYSTEM

ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
	SEALS & SEALANTS	
45	WEATHERSTRIP	THERMOPLASTIC ELASTOMER; BY: DEVENTER
46	WEATHERSTRIP	THERMOPLASTIC ELASTOMER; BY: DEVENTER
47	WEATHERSTRIP	THERMOPLASTIC ELASTOMER; BY: DEVENTER
48	WEATHERSTRIP	THERMOPLASTIC ELASTOMER; BY: DEVENTER
49	WEATHERSTRIP	THERMOPLASTIC ELASTOMER; BY: WEGNER
	FASTENERS	
52	0.06" X 1.26" S.S. CURVED NAIL	4" FROM CORNERS & 12" MAX. O.C.
53	0.16" X 1.57" WOOD SCREW	2 PER HINGE INTO STILE
54	0.16" X 1.18" WOOD SCREW	3 PER HINGE INTO JAMB
55	0.16" X 1 1/4" MACHINE SCREW	3 PER HINGE
56	0.16" THREADED INSERT	3 PER HINGE
57	0.30" X 4.72" BAUTEC WOOD SCREW	WITHIN 8" OF ENDS & 18" MAX. O.C.
59	NO. 14 X 4" BAUTEC WOOD SCREW	WITHIN 8" OF ENDS & 18" MAX. O.C.
60	0.18" X 2" WOOD SCREW	WITHIN 6" OF ENDS & 18" MAX. O.C.
61	0.136" X 1.26" SELF TAPPING SCREW	WITHIN 4" OF ENDS & 13 3/4" MAX. O.C.
62	0.136" X 1.50" SELF TAPPING SCREW	WITHIN 4" OF ENDS & 13 3/4" MAX. O.C.
63	0.11" X 0.87" SELF TAPPING SCREW	WITHIN 4" OF ENDS & 13 3/4" MAX. O.C.
64	0.24" X 3.15" WOOD SCREW	WITHIN 8" OF ENDS & 18" MAX. O.C.

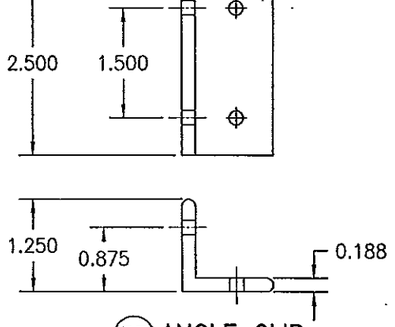
NOTE: WOOD USED IN TESTING WAS SIPO MAHOGANY WITH A SPECIFIC GRAVITY OF G = 0.62 AND A MODULUS OF ELASTICITY OF E = 1,6000,000 PSI. OTHER WOOD SPECIES APPLICABLE FOR USE WITH THIS PRODUCT ARE THOSE WITH A SPECIFIC GRAVITY OF 0.62 AND MODULUS OF ELASTICITY OF 1,600,000 PSI OR GREATER. ALL WOOD IS MINIMUM GRADE 2 MILLED BY TISCHLER UND SOHN TO SELECT.

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. FL-303.03
Expiration Date MAY 27 2019
By
Miami Dade Product Control

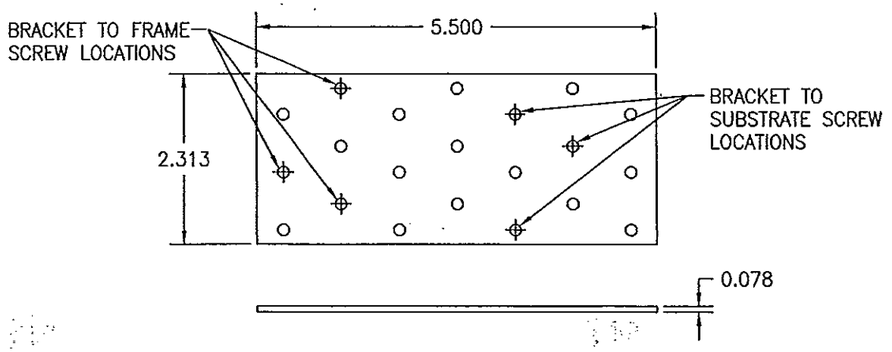


(31) MEETING STILE REINFORCEMENT

(32) INSTALLATION CLIP



(33) ANGLE CLIP



(34) BTI BRACKET

DRAWN BY: W.R.W.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 10/08/08

NO.	REVISION DESCRIPTION	BY	DATE

DRAWING TITLE
OUT-SWING IMPACT WOOD PANEL DOORS

MANUFACTURER
TISCHLER UND SOHN (USA) LTD.
SIX SUBURBAN AVENUE
STAMFORD, CONNECTICUT 06901
203-674-0600

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

CERTIFICATION
FEB 20 2014
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO. 1616
REV. B
SHEET NO. 17 OF 17